Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

October 20, 1958

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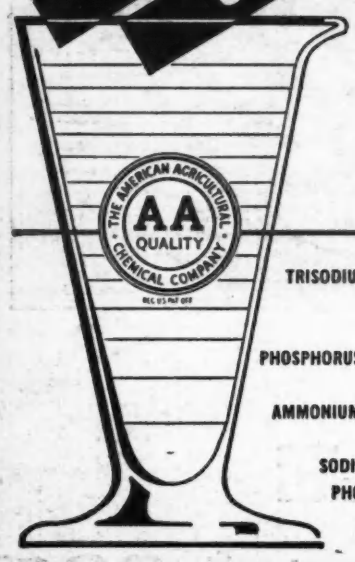

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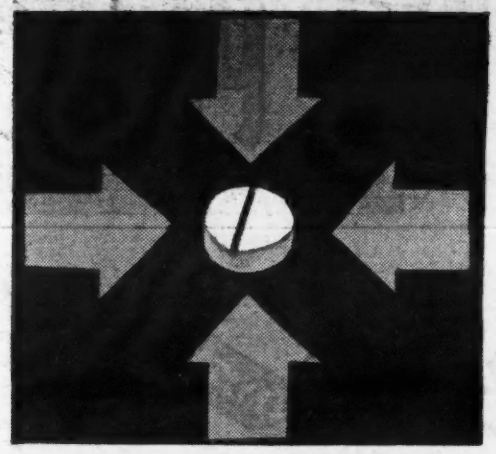

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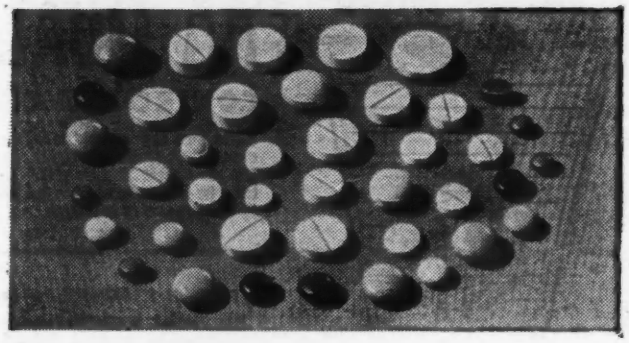

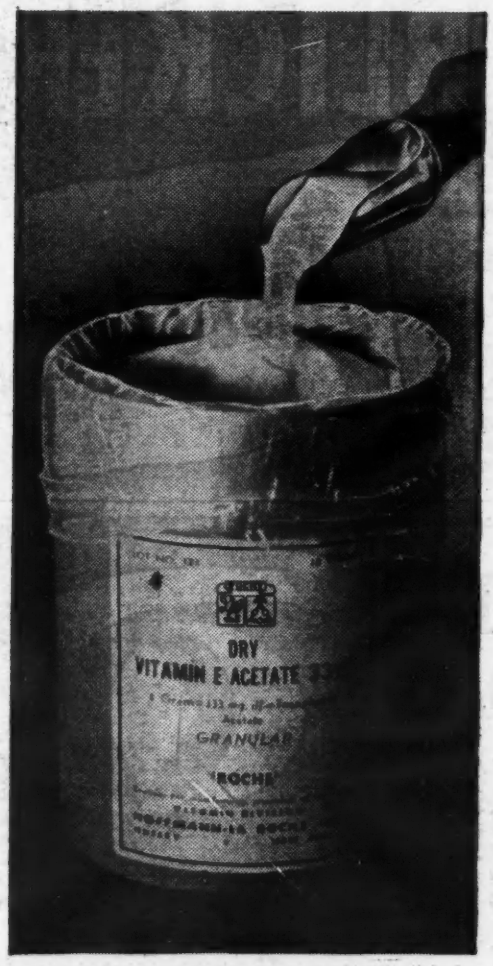

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Oil, Paint and Drug Reporter

Vol. 174 No. 17 30 Church St., New York 7, N. Y. October 20, 1958

SOLVAY REALIGNS ITS TOP MANAGEMENT: Arthur Phillips, Jr. (left), appointed vice-president of Solvay Process Division, Allied Chemical Corporation, New York, and Verne W. Aubel, Jr. (right), made its director of sales. Robert L. Reynolds and G. Richard Barclay (not shown here), named Solvay's assistant director of sales and manager of the sales department's organic chemicals section, respectively.

Agricultural Chemical Makers Have a Request: Plant Products Under Wing of the Miller Law

The agricultural chemical industry has a big request to make of congress. It wants the law-making body to change the rules and push such products as chemical defoliants, desiccants and plant-growth regulators under the wing of the Miller pesticide law. And, while all this is going on, the industry would also like to see the Department of Agriculture act administratively to bring nematocides within the reach of the law.

At the present time, chemical defoliants, desiccants and growth regulators are subject to supervision by the Food and Drug Administration as food additives under the newly-enacted food additives law.

The nematocides are not covered by any federal law.

Aims Disclosed by Hitchner

The aims of the industry to change the regulatory scheme for these products were disclosed by Lea F. Hitchner, executive secretary of the National Agricultural Chemicals Association, in a speech prepared for delivery to the twelfth annual convention of the Association of American Pesticide Control Officials in Washington, D. C., on Saturday (October 18).

There are three primary objectives to the proposal broadening the scope of the Miller law and transferring the three groups of chemicals from the additives law to the Miller law:

- It will simplify matters for the agricultural chemical industry and others concerned to have all agricultural chemicals regulated by one law instead of being spread over several laws.
- It will aid in maintaining uniformity of state and federal laws regulating agricultural chemicals.
- It will provide more protection to farmers because, unlike chemicals covered by the additives law, those covered by the Miller law must be registered with the Department of Agriculture.

Mr. Hitchner told the state control officials that the necessary legislation will

—Continued on page 53

FIBERS SALES MANAGER: Erwin G. Walker, named sales manager of its fibers division by American Cyanamid Company, New York.

Chemical Industry Fuel Bill Cuts Are Promised With Nuclear Energy

If the chemical industry wants to cut its fuel bills, it had better take a good look at the possibilities offered by nuclear energy. That is what the National Planning Association is saying. In the last of a series of reports just issued on the productive uses of nuclear energy, the association analyzes the potential value of nuclear process heat for the chemical industry and finds many things that make a chemical executive sit up and listen.

ASS'T GENERAL MANAGER: Douglas L. Mann, appointed assistant general manager at Western Condensing Company, Appleton, Wis., division of Foremost Dairies.

Summarizing its studies for the chemical business, the report has this to say:

What the Evidence Shows

"The evidence shows that chemical industries use large quantities of low temperature process heat chiefly for cooking, distilling and drying operations. These industries have been growing rapidly in recent years, and if this growth continues in the future, it is estimated that by 1965 they will consume close to 1,600 trillion BTU per year for producing process heat alone. This will be equivalent to approximately 62 million tons of coal.

"The estimated average annual increment in energy consumption during the next decade is 5.4 trillion BTU. It appears, therefore, that opportunities for large nuclear reactors will be favorable.

"Moreover, since chemical industries generally require large quantities of process heat in individual establishments and operate at a high plant factor, nuclear energy will have a better chance of competing with conventional fuels than in most other industries."

The author of the study, George Perazich, engineering consultant who has made several other studies in the nuclear power field, found that the opportunities for the use of nuclear process heat appear to be especially favorable in the case of synthetic fibers.

"If future expansion occurs by the construction of large plants, nuclear energy should be considered," he said. "It might, in time, become competitive in any region where the prices of conventional fuels exceed 30 cents per million BTU. In the past, this industry has been expanding rapidly; and if this growth continues, siz-

—Continued on page 66

Stauffer Buys Into Mexican HF Company

Stauffer Chemical Company, New York, has acquired a 50 percent interest in Fluor-Mex, S.A., presently the sole producer of hydrofluoric acid in Mexico. The plant, which is located at Santa Clara, near Mexico City, produces both anhydrous hydrofluoric and the usual aqueous grades.

It is anticipated that a major part of the plant's output will go to the petroleum industry and other chemical operations in Mexico.

Fluor-Mex was founded by a group of

—Continued on page 48

Reichhold Building Big Phthalic Facility

A $5 million dollar plant capable of producing 30 million pounds of phthalic anhydride annually, which will make it one of the largest of its kind in the world, is being constructed at Elizabeth, N. J., by Reichhold Chemicals, Inc., White Plains, N. Y.

It will be completed and ready for production by the fall of 1959. To be located on the same site with other RCI manufacturing facilities, the new building will be designed for quick expansion to an annual output of 50 million pounds, if necessary.

The plant will employ the fluid bed catalyst technic of manufacture, enabling the company to conform to the most rigid of industrial specifications.

Bakelite Company to Be Union Carbide Plastics

Union Carbide Corporation will rename its plastics division. As of November 15, Bakelite Company becomes Union Carbide Plastics Company.

According to the New York firm, the change will be another step in a program initiated last year to cement corporate identity with the company's products. At that time, the corporation shortened its name and originated the Union Carbide hexagon symbol.

The plastics company, according to R. K. Turner, president, will continue to produce and sell its products under the familiar "Bakelite" and other well-known trademarks.

In a number of personnel changes J. L. Rodgers has been named director of sales of the plastics unit, and T. W. Sharp has been appointed director of product marketing.

J. B. Knowles will be manager of sales and C. W. Patton will be manager of national accounts.

Caprolactam Monomer Unit To Be Opened Up by Allied

Allied Chemical Corporation, New York, goes on stream January 1 with its expanded Hopewell, Va., caprolactam monomer production facility. Annual capacity of the unit is expected to be in excess of 60 million pounds.

The plant will produce caprolactam monomers as well as a number of intermediate chemicals and the by-product ammonium sulfate. Allied has already put some additional equipment at Hopewell, including a crystallizer.

Merck Expanding in Holland

Merck Sharp & Dohme (Nederland) N. V., Dutch subsidiary of Merck & Co., Rahway, N. J., will spend $880,000 on expansion at Haarlem, the Netherlands. Merck plans to enlarge its facilities there for producing chlorothiazide, a diuretic, and other organic pharmaceuticals.

Chlorine, Caustic Coming From New Dow Plants

Dow Chemical Company is now shipping liquid chlorine and caustic soda in 50 percent and 73 percent solutions from the new facilities of its Louisiana Division, located on the Mississippi River in Plaquemine.

The plants, operating as part of Dow's new chemical complex ten miles south of Baton Rouge, will provide faster and more convenient service to markets in the southeastern and central states, says Donald K. Ballman, director of sales for the Midland, Mich., company.

FDA Policy Set on Processed Food Pesticide Residues

It's illegal for a processed food or feed to contain more residue of a pesticide than is allowed on the raw product from which it is made, unless a higher tolerance has been granted for the final product.

That's the significance of a Food and Drug Administration policy ruling which bans the use of apple pomace containing more than seven parts per million of DDT in animal feeds. The tolerance for DDT on apples is seven parts per million.

At the same time, FDA cautions that apple pomace containing DDT in any quantity is not suitable for dairy feeding and that it involves risk of producing illegal meat if fed to meat animals, even though the pomace contains DDT in lower concentrations than seven parts per million.

No DDT is permitted in milk, FDA says, adding that studies show that even minute amounts of DDT in feed will result in contaminating milk with this pesticide.

A tolerance under the law permits seven parts per million of DDT to remain in or on the fat of meat from cattle, sheep and hogs.

However, the agency points out, animals consuming DDT may accumulate considerably more of it in their fat than was present in the feed, because DDT is stored and accumulated in fat tissue.

Once the DDT content of the animal fat exceeds the tolerance, a long period of DDT-free feeding may be required to reduce the excessive residues to the permissible level.

It has not been established, FDA says, under what conditions of feeding, if any, apple pomace containing less than seven parts per million of DDT can be fed to animals without causing the meat from them to contain excessive residues.

Unless a feed producer is in a position to establish this, the agency advise him not to use apple pomace in feeding meat animals.

Medical Science Takes Stock Of New Drugs at Symposium

Medical science has a whole new stock of drugs in its armamentarium, headed by a broad-spectrum antibiotic for use against infections and experimental cancers and a new sulfonamide that is thought to be the safest yet. That is what drug men heard last week at the sixth annual Antibiotics Symposium in Washington, D. C., as many of the country's leading drug houses catalogued their accomplishments during the past year.

The broad-spectrum antibiotic is a product of Parke, Davis & Co., Detroit, Mich. There were three reports from Parke-Davis on the product, called "Actinobolin," which indicated that the material is a "potent inhibitor" of various gram-positive and gram-negative bacteria.

It was also reported that relatively high doses protected mice against experimental staphylococcal, streptococcal and Klebsiella infections.

Hope From Sloan-Kettering

In addition there was a report from Sloan-Kettering Institute for Cancer Research that indicated "Actinobolin" is effective at relatively high concentrations in repressing the growth of a number of transplantable cancers.

However, in Detroit, Parke-Davis executives pointed out that while numerous studies on "Actinobolin" have been conducted, they "cannot at present say that 'Actinobolin' is of significant value in the treatment of human cancer."

Roche Laboratories, Nutley, N. J., a division of Hoffmann-LaRoche, Inc., announced development of the new sulfonamide.

The drug is a low-dosage antibacterial called "Madribon" (sulfadimethoxine). Its action is explained by rapid absorption and high concentrations in the bloodstream. Because of the high solubility of its principal excretory product, Roche says the drug may be used without fear of kidney or other complications, thus making it exceptionally safe.

A number of other prominent drug makers reported on new drug developments and new knowledge of already-established drugs.

Eli Lilly & Co., Indianapolis, Ind., told of an antibiotic, "Vancomycin," isolated from organisms in a Borneo soil sample that can be life-saving in staphylococcus infections that are refractory to multiple-antibiotic treatment.

The company also reported on erythro-

—Continued on page 70

Vitro Prepares to Study Stratosphere Laboratory

Vitro Laboratories, Silver Spring, Md., has received a contract from the Office of Naval Research to conduct a study of a manned stratosphere laboratory that will consist of a platform for scientific and technological studies 100,000 to 120,000 feet above the earth's surface.

The study is an extension of the "Strato-Lab" research program initiated in 1954 by the Office of Naval Research. The proposed "Strato-Lab" will be suspended from a high-altitude balloon, enabling scientists to remain aloft for extended periods of time. In addition to research in the pure sciences, the "Strato-Lab" will have possible application in such diverse fields as weather prediction and communications.

Synthetic Fiber Firm Picks N. C. Plant Site

Fiber Industries, Inc., the jointly-owned company recently formed by Celanese Corporation of America, New York, and Imperial Chemical Industries, Ltd., of Great Britain, (OPD, 9/29/58) has selected a 215-acre tract near Shelby, N. C., as the site for its new plant for the production of "Teron" polyester fiber.

Executive offices of Fiber Industries, Inc. (formerly known as Lindum Fibers Corporation), will be located in Charlotte, N. C., forty miles east of Shelby. Temporary quarters will be established in the Celanese textile division headquarters office building in Charlotte.

It is expected that construction work on the first unit of the plant will begin by the first of the year. The facility will be

—Continued on page 70

Crest, Synthron Merge

Crest Chemical Corporation, Newark, N. J., and Synthron, Inc., Ashton, R. I., have merged. According to a spokesman for the merged firms, Crest will function as an independent division of the combined operation. Also, it was noted, a new southern plant, research and customer service laboratories, are in the planning stages. The lines of both firms will be manufactured at the proposed southern plant.

Argentine Drug Protection Off; Triple Prices Are Seen

Argentina has pulled the protective wraps off her $25 million drug import market. The effect on prices is expected to be nothing short of astronomical. Sources in Buenos Aires suggest listings will double and probably triple.

Previous to the government's move, pharmaceuticals were on a preferential exchange list. The action on pharmaceuticals is the latest step in the elimination of hidden subsidies for imported consumer goods, which Argentina can no longer finance because of the steady deterioration of her exchange reserves.

The Week's Price Changes

Copper Sulfate, Lead, Litharge, Silver Nitrate Advanced. Citral, Citronellal, Japan Wax, Tapioca Flour Reduced.

Prices Advanced

Caraway seed, Dutch, ½c. per lb. (p. 56).
Coconut oil, crude, ¼c. per lb. (p. 63).
Copper carbonate, 60c. per cwt. (p. 38).
Copper hydrate, ¾c. per lb. (p. 38).
Copper metal, 1c. per lb. (p. 38).
Copper nitrate, 1¼c. per lb. (p. 38).
Copper oxide, all types, 1c. per lb. (p. 60).
Copper sulfate, CP, 25c. per cwt. (p. 38).
Cryst., 25c. per cwt.
Monohydrated, 35c. per cwt.
Tribasic, 50c. per cwt.
Cottonseed meal, $1 per ton (p. 63).
Hoofmeal, Chicago, 25c. per lb. (p. 49).
Lard, cash, ¼c. per lb. (p. 63).
Lead, ½c. per lb. (p. 38).
Lead, red, ½c. per lb. (p. 60).
Lead, white, basic carbonate, 1¼c. per lb. (p. 60).
Lead, white, basic silicate, ¾c. per lb. (p. 60).
Lead, white, silico-chromate, ¾c. per lb. (p. 60).
Litharge, ½c. per lb. (p. 60).
Mineral orange, ½c. per lb. (p. 60).
Nutmegs, East Indian, 10c. per lb. (p. 56).
Silver cyanide, 2¼c. per oz. (p. 51).
Silver nitrate, 2c. per oz. (p. 51).
Spearmint oil, 10c. per lb. (p. 56).
Tin, ¼c. per lb. (p. 38).

Prices Reduced

Beeswax, refd., yellow, 2c. per lb. (p. 63).
Carnauba wax, yellow, 1c. to 2c. per lb. (p. 63).
Celery seed, French, 1c. per lb. (p. 56).
Citral, CP, 25c. per lb. (p. 56).
Citronellal, 45c. per lb. (p. 56).
Cloves, Madagascar, ½c. per lb. (p. 56).
Zanzibar, 1c. per lb.
Cocoa butter, 1c. per lb. (p. 63).
Corn oil, crude, ¼c. per lb. (p. 63).
Refd., ¼c. per lb.
Cottonseed oil, crude, ¼c. per lb. (p. 63).
Refd., ¼c. per lb.
Japan wax, 2c. per lb. (p. 63).
Molasses, New Orleans, ¼c. per gal. (p. 44).
New York, 1c. per gal.
Olive oil, 5c. per gal. (p. 63).
Pepper, Lampong black, ¼c. per lb. (p. 56).
Malabar black, ¼c. per lb.
Sarawak black, ½c. per lb.
Muntok white, ½c. per lb. (p. 56).
Soybean meal, $6 per ton (p. 63).
Soybean oil, crude, ¼c. per lb. (p. 63).
Refd., ¼c. per lb.
Tung oil, ½c. per lb. (p. 63).
Tapioca flour, Brazilian, spot, 1c. per lb. (p. 43).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100=1949 average)

Oct. 17, 1958	Oct. 10, 1958	Oct. 18, 1957
108.69	108.79	109.88

Cobalt, Tungsten Probe Is On

Civil and Defense Mobilizer Leo A. Hoegh has come to a decision on foreign cobalt and tungsten ores and concentrates. He has picked up the recommendation of his staff (OPD, 10/13/58) and decided to go ahead with an investigation of the imports of these materials. The probe will be made under section 8 of the trade agreements act of 1958 to determine whether imports of the commodities are such as to threaten impairment of national security.

The cobalt study is being initiated upon application of Howe Sound Company, New York. Its subsidiary, Calera Mining Company, conducts cobalt mining operations at Cobalt, Ida., and operates a refinery producing electrolytically purified cobalt metal at Garfield, Utah.

The tungsten petition was filed by Tungsten Mining Corporation, a subsidiary of Howe Sound, which bases its operations near Henderson, N.C. Both applications were submitted on September 15.

In letters to the companies, Mr. Hoegh noted that the Office of Civil and Defense Mobilization is preparing procedural regulations to govern the conduct of section 8 investigations.

When these are completed and published, he said, additional information may be requested from the companies.

Iodide Chromium Pact Set

Chromalloy Corporation and Chilean Nitrate Sales Corporation, both of New York, have completed an exclusive license agreement on a new pure form of chromium metal produced by an iodide chromium process. The process was first studied by Battelle Memorial Institute for Chilean Nitrate. The research and development program will continue with Battelle's help, the two firms said.

COWLES SUPERINTENDENT: Alfred J. Luhks, jr., appointed superintendent of its new organic chemical plant at Skaneateles Falls, N. Y., by Cowles Chemical Company, Cleveland, Ohio.

Escambia Opens Lab

Escambia Chemical Corporation has opened its new research laboratory at Wilton, Conn. The facility will be used exclusively for research in pharmaceutical intermediates, materials for the plastic industry and synthetic organic chemicals.

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ASARCO BEGINS ASBESTOS OPERATIONS: Huge power shovels load asbestos ore into waiting trucks for transport to the new $9.2 million mill of Lake Asbestos of Quebec, Ltd., subsidiary of American Smelting & Refining Company. The puddle in the background is what was once 500-acre Black Lake. The asbestos deposit is now being mined to produce 100,000 tons of asbestos fiber a year. (A separate story on Asarco's entry into the asbestos field may be found below.)

American Smelting Sets Its Foot Into New Field—Canadian Asbestos

American Smelting & Refining Company has formally set foot into a new field—asbestos—with the dedication of a $36 million Canadian venture which is expected to boost the free world's supply of the versatile mineral by 7 percent. Locale of the new enterprise is Black Lake, Quebec, where a wholly-owned subsidiary of Asarco, known as Lake Asbestos of Quebec, Ltd., has developed a mine and built a mill to produce 100,000 tons of fiber a year.

Leaders in industry and government from Canada and the United States journeyed to the site last week to be on hand as the big installation was dedicated and took its place as a unit in one of Quebec's major industries.

The project is expected to maintain its goal of 100,000 tons a year from open-pit mining for the next twenty years. After that the production will probably have to come from underground sources. Ore reserves are presently estimated at 42 million tons.

Can Produce All Grades

The Black Lake ore bodies are of such quality that the mill is able to produce all grades of asbestos from the longest to the shortest fibers. Capacity of the mill is 5,000 tons of ore a day.

Lake Asbestos will probably maintain a distribution pattern similar to that of other Canadian producers, selling 50 percent to the United States, and exporting the rest, principally to Europe, Latin America, Japan and Australia. Especially good customers are countries which are short of steel, but have raw materials to make concrete. Asbestos-concrete is a versatile construction element.

President of Lake Asbestos of Quebec is Robert D. Bradford, who also is a vice-president and director of Asarco. General manager of the Canadian company is Michael J. Messel.

The new installation centers around an open pit mine. A few years ago this was a 500-acre lake, Black Lake, which acted as the key factor in the drainage system of a populated area. Black Lake was shifted into new, man-created basins, and the river which drains this heavy rainfall area

—*Continued on page 66*

Eli Lilly to Resume Salk Vaccine Output

Eli Lilly & Co., Indianapolis, Ind., plans to resume production of Salk polio vaccine later this month.

Salk vaccine production was suspended June 1 by Lilly when it had piled up inventories of 20 million doses, about 80 percent of the drug industry's stocks at that time.

Since then, said Eugene M. Beesley, Lilly president, plant facilities have been on a stand-by basis. As a result, he added, production can be resumed without delay.

Cyanamid and Pfizer File Antibiotic Replies

Federal Trade Commision got answers last week from American Cyanamid Company, New York, and Chas. Pfizer & Co., Brooklyn, N. Y., on its complaint of price-fixing and monopolistic activities in the antibiotics industry.

Cyanamid said that the patent licensing agreements between it, Pfizer and Bristol Laboratories, Inc., Syracuse, N. Y., fostered rather than restrained competition in the marketing of tetracyclines. It flatly denied the price-fixing allegations.

Pfizer similarly issued a blanket denial of any wrong-doing on its part. In addition, it said it had no knowledge of any law violations in the antibiotics industry.

In its answer, Cyanamid pointed out that the licensing agreements between Cyanamid and Pfizer enabled the Brooklyn company to manufacture and sell tetracycline made from chlortetracycline covered by a Cyanamid patent.

The agreements also made it possible for Cyanamid to continue to manufacture and sell tetracycline under Pfizer's patent.

Another licensing pact between Cyanamid and Bristol permitted the Syracuse concern to continue to make and sell the

—*Continued on page 71*

Tartrate Choice Up to Gov't: Put a Strong Curb on Imports Or See Last Facility Closed

The government has the choice of putting a curb on imports of tartrates into the country or seeing the nation's last producing plant—already in a shutdown condition—remain closed permanently. Such is the situation outlined to the Tariff Commission last week by representatives of Stauffer Chemical Company, New York, in an appeal for import quotas and withdrawal of tariff concessions on tartaric acid and cream of tartar.

The petition was supported at the hearing by one of Stauffer's customers, Lester Lewis, of Beaunit Mills, Inc.; by a union spokesman, Thomas Hogan, of the Oil, Chemical & Atomic Workers Union; and by an importer of argols, Albert Mevi, of Tartaric Raw Materials, Inc., New York.

Nylos, Chemore in Opposition

Opposition to any change in the current tariff situation was voiced by spokesmen for two importing concerns, Nylos Trading Company and Chemore Corporation, both of New York.

The opposers contended that the troubles of the sole domestic producer stem not from imports but from substitutes for tartrates, chiefly citric acid.

Stauffer first began production of tartar products in 1899, when the American Cream Tartar Company, a subsidiary company, established a factory at San Francisco, Calif.

That plant, which operated on argols from the California wineries, but later replaced them with imported argols, was closed in 1946 when the city condemned the site for a sewage disposal plant. Stauffer purchased its Brooklyn, N. Y., plant as a going concern from Standard Brands, Inc., and that unit has been Stauffer's sole producing facility ever since.

In 1930 there were three other domestic makers of tartar products. These included Standard Brands, Inc., Harshaw Chemical Company and Chas. Pfizer & Co. Harshaw abandoned its production in 1935. Pfizer discontinued in 1942, except for a brief period in 1954 and 1955, and Standard Brands sold its plant to Stauffer in 1946.

S. S. Emison, testifying for Stauffer before the Tariff Commission, said that since the end of World War II, the com-

—*Continued on page 40*

West Germany Suspected Of Dumping 2 Chemicals

The Treasury Department suspects that homatropine methyl bromide and homatropine hydrobromide are being dumped into the United States by West Germany.

The department last week instructed customs field officers to withhold appraisement of entries of the chemicals until it can determine whether they are being sold in the United States at less than their value.

Under the anti-dumping act, if the department finds that sales are being made at less than fair value the Tariff Commission will then make an investigation to determine whether American industry is being injured. Both dumping price and injury must be shown to justify a finding of dumping under the law.

Helium Needs of the Gov't Put Before Macy's Parade

The government needs its helium this year more than the Macy parade does, so there will be no big colored balloons in the annual Thanksgiving Day extravaganza of the New York department store.

The big need for helium right now is for lighter-than-air craft, for weather and high altitude research balloons and as a pressuring agent in liquid-fueled missiles.

The department store won't disappoint the children, however. It will substitute more floats, marching bands and celebrities.

Int'l Ore to Represent Potash Company Abroad

International Ore & Fertilizer Company, New York, has been named to represent Potash Company of America, Ltd., in Japan, Australia and New Zealand.

In making the announcement, PCA vice-president John W. Hall, who has just returned from a trip to Europe and Japan, indicated that coverage for other areas will be determined later.

THOMPSON SALES DIRECTOR: Allen E. Polson, appointed to the newly-created post of director of sales by Thompson Chemical Company, Pawtucket, R. I.

Hooker Plant Buzzes With Output, New Jobs

The phosphorus division of Hooker Chemical Corporation is a-buzz with new production and new executives these days. The company is substantially expanding dicalcium phosphate output at its Columbia, Tenn., plant and has named three executives in the division: a sales manager and a technical service chief for agricultural chemicals and a midwest sales manager for industrial chemicals.

Hooker has also announced that the executive sales office of the division has been moved to the Lincoln Building, 60 East 42nd street, New York, where it is located on the thirtieth floor with Hooker's other New York offices.

The division's office was formerly located at 114 East 40th street, which had been the executive headquarters of the

—*Continued on page 48*

Degan Forms N. J. Firm To Process Oils, Resins

A new corporation in New Jersey—Degen Oil & Chemical Company—has been formed to process industrial vegetable oils and resins for paint, ink, rubber, petroleum and textile oil manufacturers. Officers of the new firm are George F. Degen, president; Robert A. Pollock, vice-president in charge of production and research, with Paul H. Feakins vice-president in charge of sales.

While limited production will start late this month at the firm's Jersey City plant, full volume operations are not scheduled until mid-November. Distribution of the firm products will be handled by George Degen & Co., New York.

One Tranquilizer, 3R's For 'Difficult' Children

One tranquilizer pill and the three R's will soon be the daily schedule for emotionally disturbed children in the Bronx public schools.

Educational authorities in the New York City borough are planning to administer drugs to "difficult" children to see if such medication will improve their work and deportment. Albert Einstein Medical College is cooperating with school authorities in the project.

Nerve Gas Finds Its Match in New Pyridine Derivative

An antidote, many times more effective than any other in existence, has been developed for deadly nerve gases and related phosphorus compounds.

First conceived on paper, the compound —pyridine 2-aldoxime methiodide (PAM) —was then produced in the laboratory and later tested successfully.

Based on the principle of molecular complementariness, PAM has been built up in such a way as to fit in with and reactivate enzymes inhibited by nerve gas.

The original thinking that paved the way for the laboratory development was described by Dr. Irwin B. Wilson of Columbia University College of Physicians and Surgeons before a recent conference in New York on the mechanism of nerve activity and muscular contraction.

According to Dr. Wilson, some 5,000 Japanese rice-field workers have been treated with PAM after suffering poisoning from the insecticide parathion.

The compound, which was synthesized in 1955, is still not available commercially in this country, though it is under study by the Army Chemical Warfare Center.

PAM is reputed to be the first compound in medical history to be blueprinted first on paper to perform a specific job, to be made in the laboratory and then in testing to produce a series of results predicted in the initial calculations.

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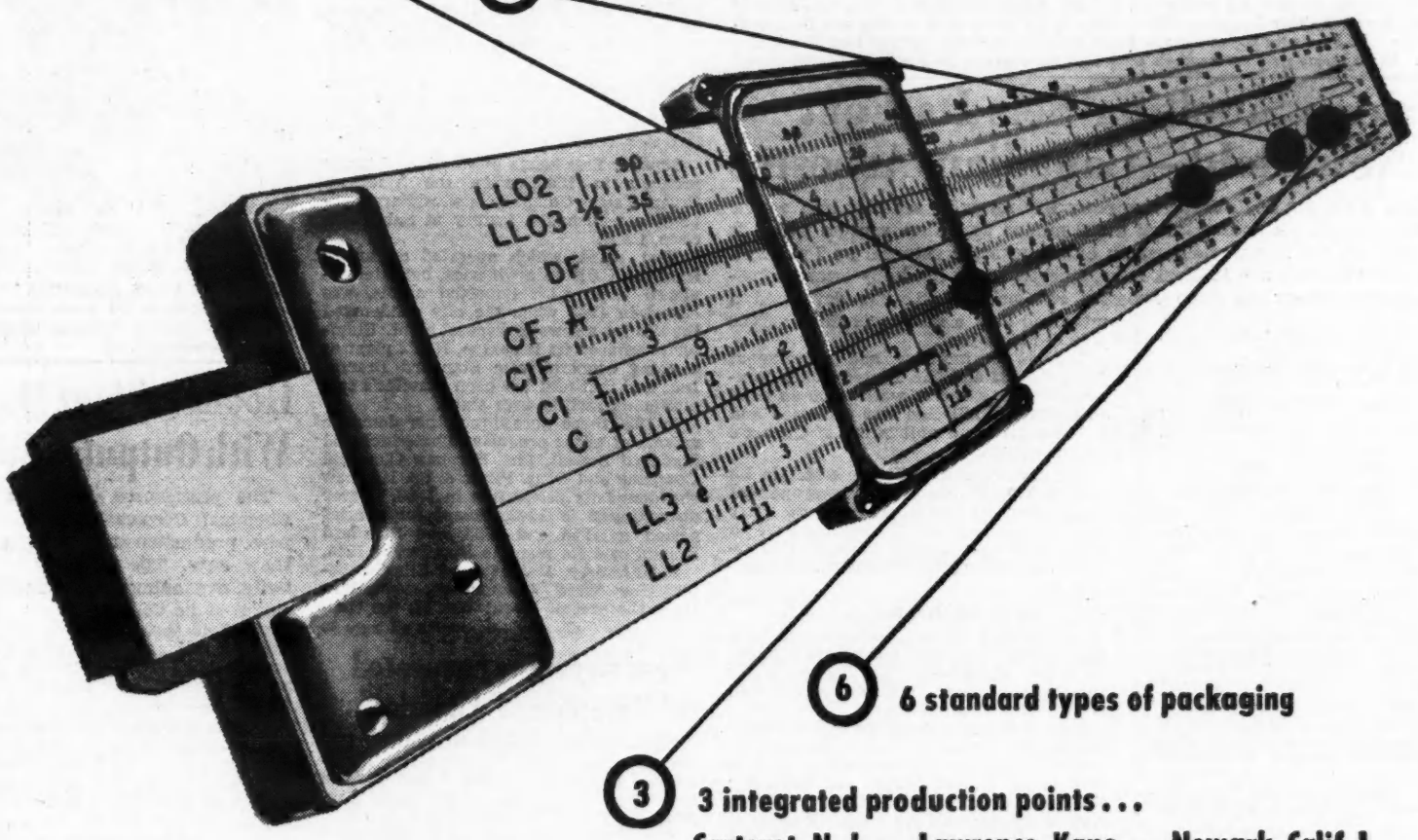

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Meetings

American Association of Textile Chemists & Colorists, national convention, Conrad Hilton hotel, Chicago, October 30-November 1.

American Coke & Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 20-21.

American Council of Independent Laboratories, annual meeting, Atlanta, Ga., October 29-November 1.

American Oil Chemists' Society, fall meeting, Sherman hotel, Chicago, October 20-22.

American Standards Association, annual conference, Roosevelt hotel, New York, November 18-20.

American Petroleum Institute, annual meeting, Conrad Hilton, Palmer House and Congress hotels, Chicago, November 10-13.

Association of Consulting Chemists & Chemical Engineers, annual meeting, Biltmore hotel, New York October 28.

Chemical Bureau Alumni Association, fall get-together, Lexington hotel, New York, November 13.

Chemical Institute of Canada, chemical economics division, Sheraton-Mt. Royal hotel, Montreal, Canada, November 18.

Chemical Market Research Association, adhesives meeting, St. Paul hotel, St. Paul, Minn., November 12-13.

Chemical Section of 1958 National Safety Congress, LaSalle hotel, Chicago, October 20-23.

Chemical Specialties Manufacturers Association, annual meeting, Commodore hotel. New York, December 8-10.

Commercial Chemical Development Association, joint meeting with National Agricultural Chemicals Association, Lord Baltimore hotel, Baltimore, Md., and Beltsville, Md., November 20-21.

Drug, Chemical & Allied Trades Section of the New York Board of Trade, alumni dinner, Waldorf-Astoria hotel, New York, November 19.

Drug, Chemical & Allied Trades section of the Young Men's Board of Trade, annual luncheon meeting, Roosevelt hotel, New York, October 23.

Food Additives Conference, sponsored by Food and Drug Administration and Food Law Institute, Department of Health, Education and Welfare Auditorium, Washington, D. C., November 24-25.

Fragrance Foundation, annual convention, Waldorf - Astoria hotel, New York, October 21.

Manufacturing Chemists' Association, semi-annual meeting and winter conference, Statler hotel, New York, November 25.

National Agricultural Chemicals Association, annual meeting, General Oglethorpe hotel, Savannah, Ga., October 29-31.

National Conference on Air Pollution, Sheraton - Park hotel, Washington, D. C., November 18-20.

National Paint, Varnish & Lacquer Association, annual convention, Shoreham and Sheraton-Park hotels, Washington, D C., October 27-29.

National Pest Control Association, silver anniversary convention, Statler hotel, Washington, D. C., October 20-23.

National Plastics Exposition, sponsored by Society of Plastics Industry, International Amphitheatre, Chicago, November 17-21.

National Wholesale Druggists Association, annual meeting, Americana hotel, Bal Harbour, Fla., November 8-13.

Parenteral Drug Association, annual meeting, Statler hotel, New York, October 22-24.

Pharmaceutical Manufacturers Association, midyear meeting, Waldorf-Astoria hotel, New York, December 8-10.

Salesmen's Association of the American Chemical Industry, chemical sales clinic, Roosevelt hotel, New York, October 20.

Salesmen's Association of the American Chemical Industry, annual dinner meeting, Commodore hotel, New York, October 29.

Society of Plastics Industry, annual national conference, Morrison hotel, Chicago, November 17-21.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, November 12.

Antibiotic Medicine's Giants Agree There Are Long Roads Ahead for Drug Researcher

Two of the giants of antibiotics—Sir Howard W. Florey and Dr. Selman A. Waksman—went to Washington, D. C., last week to attend the sixth annual Symposium on Antibiotics and to contribute their wisdom in charting the future of antibiotic medicine. They, and a group of other eminent scientists, agreed that although antibiotics have come a long way since the discovery of penicillin thirty years ago, there are still three long roads ahead for the antibiotics researcher:

- Extension of the prophylactic role.
- Understanding the causes of resistant bacteria.
- Determining the basic mode of action against pathogenic organisms.

Pressing Staphylococci Problem

Dr. Henry Welch, director of the antibiotics division of the Food and Drug Administration, served as symposium chairman. He opened the session by highlighting one of the difficulties ahead—"the pressing problem of resistant staphylococci and the prevailing incidence of worldwide staphylococci disease."

Dr. Welch called the staph problem "quite serious" and said that to overcome it science would have to give the problem its "concentrated attention."

Also participating in a panel discussion were the following experts in the field of antibiotic medicine:

Dr. Chester S. Keefer, Evans Memorial Hospital and Boston University School of Medicine, Boston, Mass.

Dr. Henry F. Dowling, department of preventive medicine, College of Medicine, University of Illinois, Chicago.

Dr. Felix Marti-Ibanez, professor of the history of medicine, New York Medical College, Flower and Fifth Avenue Hospitals, New York, and editor-in-chief of the medical news magazine, *MD*.

In opening his discussion, Dr. Waksman, co-discoverer of streptomycin, pointed out that the biogenesis of the antibiotics and the mode of action of an anti-

—Continued on page 71

Squibb Now Marketing Topical Corticosteroid

E. R. Squibb & Sons, New York, a division of Olin Mathieson Chemical Corporation, is marketing a new topical corticosteroid for use on inflamed skin lesions.

The new drug, trade named "Kenalog," is a chemical derivative of triamacinolone, a synthetic hormone developed by Squibb and by Lederle Laboratories Division of American Cyanamid Company.

Squibb reports "excellent to good clinical results" in more than 95 percent of an initial study group. The drug, the company says, is distinguished by its marked-anti-inflammatory, antipruritic, antiallergic effects and usually produces results clinically superior to hydrocortisone.

DCAT's Former Directors To Be Feted November 19

Ninety-one former directors of the Drug, Chemical and Allied Trades section of the New York Board of Trade, whose terms date back to 1915, will be honored at an alumni dinner to be held Wednesday, November 19, at the Waldorf-Astoria hotel, New York.

The guests of honor will be awarded "Certificates of Service" at the dinner, which will "pay tribute to those who, throughout the years, have made the organization what it is today," said Ralph A. Clark of the J.T. Baker Chemical Company, Phillipsburg, N.J., DCAT chairman.

The dinner session will be held at the Waldorf's Starlight Roof following a reception in the Sert Room, from 6:00 to 7:30 p.m. Lloyd I. Volckening of the Ivers-Lee Company is chairman of the dinner committee, and Sydney N. Stokes of van Ameringen-Haebler, Inc., is vice chairman.

Hull, Burney to Join In Air Pollution Talks

John E. Hull, president of the Manufacturing Chemists' Association, and Dr. Leroy E. Burney, Surgeon General of the Public Health Service, will be two of the principal speakers at the Nauled for November 18 to 20 at the Shoreham and Sheraton-Park hotels, Washington, D. C.

Sponsored by the Public Health Service, the conference will be attended by industrial chemists and chemical engineers from all parts of the country.

Mr. Hull will report on the chemical industry's achievements to date in the control of air pollution.

Dr. Burney will present a status report on the progress of the five-year air pollu-

—Continued on page 71

Navy's Aeronautics Chief To Dedicate Callery Plant

Rear Adm. Robert E. Dixon, chief of the navy's Bureau of Aeronautics, will be the principal speaker at the dedication of the $38 million navy "HiCal" plant in Muskogee, Okla., November 1.

The plant, reputed to be the world's first large-scale high-energy fuel facility, is being built and will be operated by Callery Chemical Company, Pittsburgh, Pa.

Drug Men Told: Product Mortality Not Up to Seller

Drug manufacturers must look to themselves for the answer to the high mortality rate of new products on the market. A recent survey, made of new products on the retail level, shows a 50 percent recall of items introduced in a given six-month period.

Harry S. Sykes, president of the drug chain that made the survey—Sun Ray Drug Company, with headquarters in Philadelphia—denies that responsibility lies with the retailer. "Give us a quality product," Mr. Sykes says, "backed up by the necessary ingredients it takes to put the product over on the market, and we can do the job."

What are the necessary ingredients? Three are paramount, Mr. Sykes feels. They are :

- A superior product that is not a carbon copy of another item on the market.
- A strong promotion program.
- Three-way value in the product, i.e., a good return for the jobber, the retailer and the buyer.

Speaking last week at the fifth annual seminar on new product introduction held at the Biltmore hotel, New York, Mr. Sykes emphasized that beyond the necessary ingredients there are no hard and fast rules for the success of new drugs. Attacking a common fallacy, he said that "brand names are no guarantees."

He marked numerous instances in which manufacturers had done phenomenally well with one brand-name item and yet, bringing out a related item under the same brand-name, had been burned badly.

Speaking of the problem from his side of the counter, Mr. Sykes said that the drug chain retailers are doing their part. "In 1954 an average 3,000 feet per store was given over to selling space; now, the

—Continued on page 45

Chemical Label Standards To Be Topic at Conference

Safety labeling standards for hazardous chemical and petroleum products will be under discussion at the ninth annual conference on standards, set for the Roosevelt hotel, New York, November 18 through 20. The American Standards Association is sponsor of the conference.

N. M. Kalker, assistant secretary, Pennsalt Chemical Corporation, Philadelphia, will be chairman of the safety session, scheduled for November 20.

Set for discussion will be:

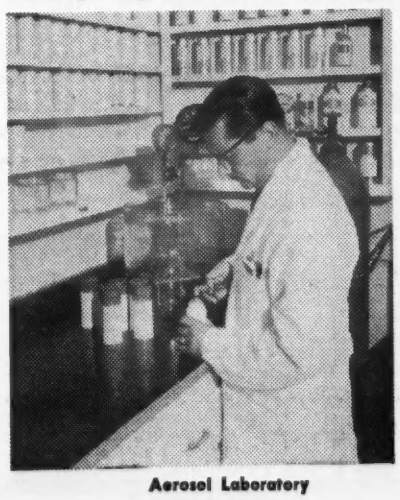
The history and principles of precautionary labeling, by John Tuttle, special assistant, Esso Standard Oil Company, New York.

The need for uniform labeling laws and regulations, by Frank R. Stamer, vice-president, Sapolin Paints, Inc.

Health hazards as related to precautionary labeling, by Dr. John Foulger, direc-

—Continued on page 41

GIVAUDAN'S NEW HOME IN NEW YORK CITY: Givaudan-Delawanna, Inc., has opened new executive offices and expanded laboratories at 321 West 44th street in New York. Pictured here are three of its laboratories. In Givaudan's aerosol laboratory (left), perfumer-chemist is shown charging an aerosol container with nitrogen propellant. In the cosmetic laboratory (center), chemist puts an emulsion through a colloid mill to reduce the particle size. In the soap laboratory (right), where both three-ounce and tablet-size bars can be made, technician is extruding a soap base. This will be stamped into tablets for shelf testing procedures.



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Cosmetic Laboratory

Soap Laboratory

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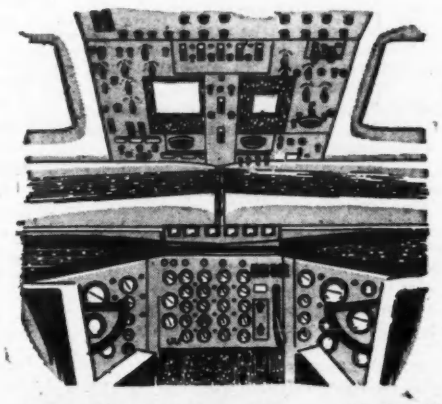

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, October 17 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns. ..... lb. 3.60 - 4.25
Acacia (see Arabic gum).
Acenaphthene, below 92.5 C. m.p., dms., works lb. .40 - —
Above 92.5 C. m.p., bbls., dms., lb. .41 - .50
Acetaldehyde, 99%, dms., c.l., works, lb. .12 - —
dms., l.c.l., works lb. .13½- —
tanks, works lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld lb. .32½- —
bbls., bgs., ton lots, frt. alld. lb. .33½- —
bbls., bgs., smaller lots, frt. alld lb. .36½- —
USP, bbls., 225-lb. dms. any quantity lb. .79 - —
100-lb. dms., any quantity lb. .81 - —
Acetic acid, coml. or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls. 100 lbs. 8.25 - —
70%, bbls. 100 lbs. 9.95 - —
80%, bbls. 100 lbs. 10.45 - —
Acetic acid, glacial, syn., CP, dms., dlvd 100 lbs. 22.00 -23.00
tech., dms., c.l., dlvd. 100 lbs. 13.75 - —
dms., l.c.l., dlvd. 100 lbs. 14.25 - —
tanks, dlvd. 100 lbs. 10.00 - —
USP, cbys., dlvd 100 lbs. 31.00 -32.00
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½- —
aluminum ret. dms., l.c.l., dlvd. E. lb. .17½- —
tanks, dlvd. E. lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib. dms., l.c.l., dlvd. lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib. dms., l.c.l., dlvd. lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
fib. dms., l.c.l., dlvd. lb. .83 - —
Acetone, CP, dms., c.l., dlvd. lb. .11 - —
dms., l.c.l., dlvd. lb. .12 - —
tanks, dlvd. .08½- —
Acetonitrile, dms., c.l., works lb. .45 - —
dms., l.c.l., works .45¾- —
Acetophenetidin, USP, dms., works, frt. equald lb. 1.22 - 1.24
Acetophenone, cns., dms. lb. .42 - 1.30
tech., dms., c.l., works lb. .37 - —
dms., l.c.l., works lb. .37¾- —
tanks, works .35 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .19 - —
cs., l.c.l., ex whse. lb. .24½- .30
Acetylsalicylic acid, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .63½- —
USP, standard, fine, cryst. gran., (30-40 mesh) powd., (80 mesh), bbls., 1,000-lb. lots, same basis lb. .58½- —
Freight equald. shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .35½- —
non-ret. dms., l.c.l., frt .alld. E. of Denver lb. .36½- —
tanks, frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .43½- —
tanks, frt. alld. E. of Denver lb. .37 - —

Acids

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Acronite root, bls. ..... lb. .50 - .55
Acrolein, tech. dms., c.l., works lb. .47 - —
dms., l.c.l., works lb. .47½- —
tanks, works lb. .46 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .30 - —
dms., l.c.l., l.t.l., frt. equald lb. .31 - —
tanks, frt. equald lb. .27 - —
Adeps lanae (see lanolin).

Abies Siberica Oil—Ammonium Bicarbonate

Adipic acid, bgs., c.l., dlvd. lb. .32¼- —
bgs., l.c.l., dlvd. lb. .35 - —
Agar, USP, Kobe No. 1, strip, bls. lb. 1.90 - 2.00
powd., 30 mesh., fib., dms. lb. 2.50 - —
dl-Alanine, dms., works lb. 8.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms. lb. .65 - .85
Albumin, egg, edible, cryst., powd., bbls. lb. 1.09 - 1.11
flake, bbls. lb. 1.05 - 1.07
tech., cryst., bbls. lb. 1.08 - 1.10
Aldol, 95%, dms., works lb. .23 - —
Denaturing grade, dms. gal. 2.15 - —

Alcohols

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .93 - —
fib. dms., l.c.l., dlvd lb. .98 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.38 - —
Alkali blue, toner, litho flushed, 125-lb. bbls., same basis. lb. 1.35 - —
Alkali blue prices 1c. higher W. of Rockies.
Allethrin, 90%, dms., frt. alld lb. 28.80 -28.90
Soln., 20%, dms., 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½% dms. frt. alld. lb. .95 - 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l., dlvd. lb. .32½- —
dms., l.c.l., dlvd. lb. .33½- —
tanks, dlvd. lb. .30 - —
Allyl bromide 55-lb. cbys. 5,005 lbs. or more, works lb. 1.47 - —
55-lb. cbys., 1,045 to 4,950 lbs., works lb. 1.52 - —
55-lb. cbys., 55 to 990 lbs. works. lb. 1.57 - —
Allyl chloride, dms., c.l., dlvd. lb. .17½- —
dms., l.c.l., dlvd. lb. .18½- —
tanks, dlvd. lb. .15 - —
Allyl isocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde).
Almond oil, nat., bitter, f.p.a., bots. lb. 2.75 - 3.45
NF, bots. lb. 3.00 - 3.30
USP, sweet, cns., dms. lb. .90 - 1.40
Aloe, Cape, cs. lb. .50 - —
powd., cs. lb. .75 - —
Curacao, kgs. lb. .60 - —
powd., kgs. lb. .80 - —
Aloin, USP, bbls., dms., kgs. lb. 3.25 - 3.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Alum, potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100-lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt., dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Alum, potash-chrome, dms. lb. .17 - —
Alumina, calcined, bgs., c.l., works. lb. .05 - —
bgs., l.c.l., works lb. .05¼- .06
Aluminum acetate, basic soln., 24%, bbls., l.c.l., works lb. .14 - —
Aluminum chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms., l.c.l., works lb. .16½- —
cryst., dms., c.l. works 100 lbs. 21.00 - —
dms., l.c.l., works 100 lbs. 21.50 - —
soln., 32°, cybs., c.l., works lb. .0495- —
cbys., l.c.l., works lb. .0555- .1325
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .31 - .32
Aluminum fluoride, tech., anhyd., bgs., c.l., works lb. .17¼- —
bgs., l.c.l., works lb. .18¼- .20¼
Aluminum fluoride in fib. dms. 0.35c. per lb. higher
Aluminum formate, basic soln., dms., c.l., works lb. .12 - —
dms., l.c.l., works lb. .12½- —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .03½- —
bgs., 20,000-40,000 lb. lots, same basis lb. .03¾- —
bgs., 2,000-20,000 lb. lots, same basis lb. .04¾- —
bulk, c.l., same basis lb. .03¼- —
Aluminum hydroxide, dried, USP XV, fib. dms., works lb. .82½- —
fib. dms., contract, works lb. .79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
fib. dms., contract, works lb. .18 - —
Aluminum hydroxide, tech., powd. (See Aluminum hydrate).
Aluminum metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2680- —
pigs, 10,000-lb. lots, frt. alld lb. .2470- —
Aluminum oxide, amorphous (See Alumina, calcined).
Aluminum paste, lining, extra-fine, dms lb. .69½- —
Standard grade, dms. lb. .47 - —
Aluminum powder, lining, extra-fine, dms lb. 1.11 - —
Standard grade, dms. lb. .81 - —

Aluminum paste and powder prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Aluminum resinate, precip., 2.1% t.t.l., dms lb. .36¼- —
Aluminum stearate, dibasic, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Monobasic, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Tribasic, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton 41.00 - —
grd., bulk, c.l., same basis ton 40.00 - —
lump, bgs., c.l., same basis ton 44.00 - —
Coml., iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.80 - —
bgs., l.c.l., works, frt. equald. 100 lbs. 4.30 - 8.30
USP, gran., dms., works lb. .30 - —
powd., dms., works lb. .37 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 6.50 -10.00
p-Aminoacetanilide, frt. alld. lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.50 - 1.75
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb. 1.72 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., l.c.l., dlvd. lb. .485 - —
tanks, dlvd. lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., l.c.l., frt. alld. lb. .45 - —
tanks, frt. alld. lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dms lb. 3.55 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt, adjusted lb. 3.70 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton 84.00 - —
refrigeration, tanks, works, frt. equald ton 86.50 - —
Aqueous, 29.4%, tanks, works, anyhd. basis ton 87.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
bgs., l.c.l., same basis 100 lbs. 8.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, fib. dms. ton lots, works lb. 1.00 - —
fib. dms. 1,000-lb lots, works. lb. 1.05 - —
Ammonium biborate, gran., dms., c.l., works ton 334.50 - —
dms., ton lots, ex whse. ton 407.50 - —
dms., smaller lots, ex whse ton 412.50 - —
Ammonium bicarbonate, dom., dms., c.l., works 100 lbs. 7.00 - —
dms., l.c.l., works 100 lbs. 9.00 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed
amorph.	amorphous
AMP	American melting point
anhyd.	anhydrous
AOAC	Association of Official Agricultural Chemists
a.p.a.	available phosphoric acid
approx.	approximately
artif.	artificial
ASTM	American Society for Testing Materials
Atl.	Atlantic
Be.	Baume
bbls.	barrels
bgs.	bags
bls.	bales
bots.	bottles
b.p.	boiling point
b.p.l.	bone phosphate of lime
b.r.	boiling range
bxs.	boxes
C.	centigrade
cbys.	carboys
CD	completely denatured
c.i.f.	cost, insurance, freight
cks.	casks
c.l.	carlots
cns.	cans
coml.	commercial
conc.	concentrated
CP	chemically pure
cps.	centipoises
cryst.	crystalline
cs.	cases
ctns.	cartons
cyls.	cylinders
d-	dextro
dbl.	double
denat.	denatured
dest-dist.	destructively—distilled
dl-	dextrolaevo
dist.	distilled
distr.	distributor
djns.	demijohns
dlvd.	delivered
dms.	drums
dom.	domestic
E.	east
e.p.	end point
equald.	equalized
exp.	expressed
Ext.	external
F.	fahrenheit
ferment.	fermentation
f.f.a.	free fatty acid
f.f.c.	free from chlorine
fib.	fiber
f.o.b.	free on board
f.p.a.	free of prussic acid
frt.	freight
gal.	gallon
gran.	granular
grd.	ground
i.&a.	iron and aluminum
i.b.p.	initial boiling point
imp.	imported
incl.	included
indust.	industrial
kgs.	kegs
l-	laevo
lacq.	lacquer
lb.	pound
l.c.l.	less than carlots
l.t.l.	less truckload
liq.	liquid
mfrs.	manufacturers
m-	meta
m.a.p.	mixed aniline point
min.	minimum
m.p.	melting point
N-	nitrogen
n-	normal
nat.	natural
neut.	neutral
NF	National Formulary
NNR	New and Nonofficial Remedies
No.	number
nom.	nominal
o-	ortho
ord.	ordinary
oz.	ounce
p-	para
Pac.	Pacific
pf.	proof
phos.	phosphate
photo.	photographic
pkgs.	packages
powd.	powdered
precip.	precipitated
prod.	producer
pt.	point
pulv.	pulverized
purif.	purified
redist.	redistilled
refd.	refined
refy.	refinery
reg.	regular
resub.	resublimed
ret.	returnable
SD	specially denatured
s.d.	single distilled
S E.	southeast
sec.	secondary
secs.	seconds
s.g.	specific gravity
shipt.	shipment
soln.	solution
s.u.	standard unit
syn.	synthetic
tanks.	railroad tankcars
tech.	technical
tert-	tertiary
t.l.	truck loads
t.w.	tank wagons
USP	U. S. Pharmacopoeia
vis.	viscosity
VM&P	varnish makers & painters
W.	west
whse.	warehouse
w w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Ammonium bichromate, dms., works. lb. .42 - .43
Ammonium bifluoride, dms., dlvd lb. .2145- .2245
Ammonium bromide, NF, gran., bbls. lb. .45 - —
Powdered ammonium bromide 10c. per lb. higher.
Ammonium carbonate, USP, lump, dms., c.l. lb. .15½- —
Ammonium chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
bgs., l.c.l., works 100 lbs. 7.75 - 8.20
USP, gran., fib. dms. lb. .17¼- —
Ammonium citrate, dibasic, bbls. lb. .77 - —
Ammonium dichromate (see Ammonium bichromate).
Ammonium fluoride (see Ammonium bifluoride).
Ammonium gluconate, tech., dms. lb. .45 - —
Ammonium hydroxide (see Ammonia aqueous).
Ammonium iodide, NF, dms., bots. lb. 4.26 - 4.38
Ammonium lauryl sulfate, dms., c.l., frt. alld. lb. .19 - —
dms., l.c.l., frt. alld. lb. .20 - —
tanks, frt. alld. lb. .18 - —
Ammonium linoleate, 80%, dms., works lb. .50 - .55
Ammonium lignin sulfonate, bgs., c.l., works 100 lbs. 3.25 - —
l.c.l., bgs., works 100 lbs. 3.40 - 3.65
Ammonium molybdate, CP, cryst., fib. dms., 15,000 lbs., works lb. 1.22 - —
fib. dms., 2,000-lb. contracts, works lb. 1.23 - —
single fib. dms., works lb. 1.24 - —
Ammonium nitrate, dom., fertilizer grade, 33.5% N bags., f.o.b., works ton. 65.00 - —
Imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 ton, base price ton. 63.00 - —
western, bgs, c.l., f.o.b. cars, Los Angeles ton. 79.69 - —
with dolomite, 20.5% N, bgs., c.l., Hopewell, Va. ton. 44.50 - —
Ammonium oxalate, tech., fine gran., powd., dms. lb. .28½- .34½
Ammonium pentaborate, gran., bgs., c.l., works ton. 193.00 - —
bgs., ton lots, ex whse. ton. 284.50 - —
bgs., smaller lots, ex whse ton. 289.50 - —
Ammonium pentaborate powder $10 per ton higher.
Ammonium persulfate, tech., dms., 10-ton lots or more, works. lb. .18 - —
dms., smaller lots, works lb. .20 - .23
Ammonium phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Ammonium phosphate dibasic, NF, V bbls. dms. lb. .46 - —
Tech., bgs., c.l., works, frt. equald. lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Ammonium silicofluoride, dms., works lb. .11¾- .13¼
Ammonium sulfamate bgs., c.l., t.l., works lb. .19 - —
bgs., l.c.l., works lb. .20½- .27
Ammonium sulfate, coke-oven, bulk, producing ovens, base price ton. 32.00 - —
purif., dms., works lb. .10 - .10½
Syn., bulk., c.l., works ton. 35.00 - —
bgs., c.l., works ton. 40.00 - —
Ammonium sulfate, tech., bulk, c.l., t.l., works ton. 52.00 - —
bgs., c.l., t.l., works ton. 56.00 - —
bgs., l.c.l., l.t.l., works—100 lbs. 3.20 - 7.20
Ammonium sulfide, liq., 40-44%, tanks, frt., equald. 100% basis ton. 160.00 - —
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Ammonium thiocyanate, tech., cryst., dms. c.l. works lb. .20 - —
dms., l.c.l., works lb. .22 - .26
tech., soln, 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼- —
Ammonium thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.65
Highly purif., cbys. 100% basis. lb. 1.70 - 1.96
d-Amphetamine hydrochloride, di-basic, bots. lb. 17.50 -23.00
dl-Amphetamine hydrochloride, di-basic, bots lb. 4.50 - 6.00
d-Amphetamine hydrochloride, mono-basic, dms lb. 17.50 -21.00
d-Amphetamine phosphate, fib. dms., 100-lb. lots lb. 15.00 - —
dl-Amphetamine phosphate, dms lb. 4.20 - 5.00
d-Amphetamine sulfate, fib. dms., lb. 15.00 -17.00
dl-Amphetamine sulfate, fib. dms., lb. 4.20 - 5.00
Amyl acetate, ex fusel oil, tech., dist., from 125° to 150°C., dms., c.l., frt. alld. E. of Rockies lb. .18½- .19
dms., l.c.l., same basis lb. .19½- .20
tanks, same basis lb. .16 - .16½
Amyl acetate, ex pentane, reg. dms., c.l., dlvd. lb. .19 - —
dms., l.c.l., dlvd. lb. .20 - —
tanks, dlvd. lb. .16½- —
Syn., oxo process, dms., c.l., dlvd. lb. .19 - —
dms., l.c.l., dlvd. lb. .20 - —
tanks, dlvd. lb. .16½- —
Tech., dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .14½- —
Amyl alcohol, ex fusel oil (see Fusel oil refd.).
Amyl alcohol, ferment, refd., 128°-132°C., dms., l.c.l., dlvd lb. .43 - —
refd., ACS grade, dms., l.c.l., dlvd lb. .45 - —
Amyl alcohol, ex pentane, mixed, amyls, dms., c.l., frt. alld. lb. .18½- —
dms., l.c.l., frt. alld. lb. .19½- —
tanks, frt. alld. lb. .16 - —
primary, dms., c.l., frt. alld. lb. .20¼- —
dms., l.c.l., frt. alld. lb. .21¼- —
tanks, frt. alld. lb. .17¾- —
sec-synthetic, dms., c.l., works, frt. alld. lb. .19 - —
dms., l.c.l., works lb. .20 - —
tanks, works. lb. .17 - —
tert-synthetic, dms., c.l., frt. alld. E. lb. .18½- —
dms., l.c.l., frt. alld. E lb. .19½- —
tanks, frt. alld. E lb. .16 - —
Amyl alcohol, 1-pentanol (syn. normal), dms., c.l., works lb. .41½- —
dms., l.c.l., works lb. .42½- —
tanks, works lb. .39½- —
Amyl alcohol, 2-pentanol, dms., c.l., works lb. .65 - —
dms., l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Amyl n-butyrate, dms. lb. 1.00 - 1.25
Amyl cinnamic aldehyde, dms lb. 1.75 - 2.20
o-tert Amyl phenol, dms., c.l., works. lb. .49½- —
dms., l.c.l., works lb. .50½- —
tanks, works lb. .47 - —
p-tert Amyl phenol, dms., c.l., works. lb. .26¾- —
dms., l.c.l., works lb. .27¾- —
Amyl salicylate, cns., dms. lb. .80 - 1.10
Amyris oil, dms lb. 1.20 - 1.75
Anethole, USP, cns., dms lb. 1.25 - 1.70
Tech., dms. lb. .85 - .90
Angelica root oil, bots lb. 120.00 -140.00
Angelica seed oil, bots. lb. 120.00 -130.00
Aniline, dms., c.l., frt. alld lb. .20 - —
dms., l.c.l., frt. alld. lb. .21 - —
tanks, frt. alld. lb. .18 - —
Aniline oil (see Aniline).
Aniline salt, dms., c.l., truckloads, 20,000 lbs. min., frt. alld. lb. .33 - —
dms., l.c.l., same basis lb. .35 - —
Anise oil, USP, dms. lb. 2.00 - 4.05
Anise seed, Mexican, bgs. lb. .17½- —
Spanish, bgs. lb. .17½- —
Anisic aldehyde, dms. lb. 1.85 - 2.20
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
dms., l.c.l., same basis lb. .82 - —
tanks, same basis lb. .76 - —
p-Anisidine, dms., works lb. .97 - —
Anthracene, 90-95%, dms., c.l., t.l., f.o.b., works lb. .42½- —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 - —
Anthranilic acid, 99%, 150-lb. dms., dlvd lb. 1.15 - —
Anthraquinone, 99.5%, bbls., c.l., frt. alld lb. .83 - —
bbls., l.c.l., same basis lb. .86 - —
Electrical grade, bbls., l.c.l., same basis lb. 1.10 - —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines. lb. .29 - —
cs., c.l., mines lb. .29½- —
Antimony oxide, bgs., c.l., frt. alld. lb. .24½- —
bgs., l.c.l., frt. alld. lb. .26 - —
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 - —
bgs., smaller lots, dlvd lb. .24 - .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
pails, l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., 250-lb. dms. lb. .69½- —
USP, powd., 250-lb. dms. lb. .74½- —
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, 25-oz. lots oz. 35.60 - —
Apricot kernel oil, USP, dms. lb. .85 - 1.25
Arabic gum, amber sorts, bgs lb. .21 - .23
USP, powd., bbls. lb. .26 - .29
Areca nuts, powd., bbls. lb. .13 - —
Arecoline hydrobromide, NF, bots., tins oz. 3.75 - —
1-Arginine, free base, dms., 10-kilo lots or more kilo. 90.00 - —
1-Arginine glutamate, dms., 10-kilo lots or more kilo. 60.00 - —
1-Argenine monochloride, dms., 10-kilo lots or more kilo. 60.00 - —
Arnica flowers (true Montana), bls. lb. 1.40 - 1.50
Arsenic, crude (95%), bulk, c.l., works lb. .016 - —
bbls., c.l., works lb. .031 - —
Arsenic trioxide, USP, dms. lb. .48 - —
Arsenic white, powd., bbls., c.l., works lb. .04½- —
bbls., l.c.l., works lb. .06½- .07½
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons deep shades, bbls. lb. 3.70 - —
Light shades, bbls. lb. 2.85 - —
Maroon shade, bbls. lb. 3.70 - —
Asafetida gum, cns. lb. .40 - —
Powd. bbls., dms. lb. .85 - —
Asbestine (see Talc fibrous, New York).
Asbestos, Canadian crude
6D, c.l. (30 tons) mines ton. 86.00 - —
7D, c.l. (30 tons) mines ton. 75.00 - —
7F, c.l. (30 tons) mines ton. 71.00 - —
7H, c.l. (30 tons) mines ton. 61.00 - —
7K, c.l. (30 tons) mines ton. 50.00 - —
7M, c.l. (30 tons) mines ton. 44.00 - —
7R, c.l. (30 tons) mines ton. 43.00 - —
7RF, c.l. (30 tons) mines ton. 44.00 - —
7T, c.l. (30 tons) mines ton. 41.00 - —
7TF, c.l. (30 tons) mines ton. 44.00 - —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher.
Ascorbic acid, USP dms., 25-100 kilo lots kilo. 10.00 - —
dms., 10-kilo lots kilo. 10.35 - —
dms., 5-kilo lots kilo. 10.75 - —
bots., 1-kilo lots kilo. 12.00 - —
bots., 500-gram bots. kilo. 12.50 - —
Ash black (see Barium sulfide).
Asphalt, gilsonite, black jet, bgs., c.l., mines ton. 40.00 - —
ex-whse, N. Y., N. J. ton. 86.50 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton. 35.00 - —
select, 350°F. fusing pt., bgs., c.l., mines ton. 41.00 - —
270°-295°F. fusing pt., bgs., c.l., mines ton. 40.00 - —
Manjak No. 10 crude, dms., works. lb. .07 - —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy. gal. .09 - —
emulsion tanks tankwagon, refy. gal. .09½- —

All the World's our garden

S. B. PENICK & COMPANY 50 CHURCH ST., NEW YORK 8 735 W. DIVISION ST., CHICAGO 10

Asphalt, petroleum, steam-refd., 80-90 penetration, tanks, tankwagon, refy. ton 21.00 - —
85-300 penetration tanks, tankwagon, refy. ton 20.00 - —
Aspirin (see Acetylsalicylic Acid).
Atropine, NF, tins oz. 5.75 - 6.50
Atropine sulfate, USP bots. oz. 5.00 - 5.50
Avocado oil, f.o.b. Calif., cns. lb. 2.25 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .65 - —
less than 1,000,000,000 units. 50,000 units. .70 - —
Balm of Gilead buds, dried, bgs. lb. 1.25 - 1.35
Barberry root bark, bgs. lb. .28 - .30
Barbital, NF, 100-lb. dms. lb. 4.50 - —
Barbital sodium, NF, dms. lb. 4.75 - —
Barium carbonate precip. bgs., c.l., works ton. 111.50 - —
bgs., smaller lots, works ton. 126.50 - —
Barium chlorate, dms., works lb. .32 - .41
Barium chloride anhyd. bgs., c.l., works ton. 176.00 - —
bgs., l.c.l., works ton. 198.00 - —
Barium chloride, NF, cryst., 100 lb. dms lb. .32 - —
Tech., cryst., bgs., c.l., works. 100 lbs. 7.00 - —
bgs., l.c.l., works 100 lbs. 8.00 - —
Barium chromate, bgs. frt. equald. lb. .38 - —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald. ton. 208.00 - —
bgs., l.c.l., l.t.l., frt. equald. ton. 218.00 - —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls., c.l., t.l., dlvd. lb. .16 - —
bbls., l.c.l., l.t.l., dlvd. lb. .17 - —
Barium oxide, grd., dms., c.l., t.l., frt equald. ton. 275.00 - —
dms., l.c.l., l.t.l., frt. equald. ton. 285.00 - —
Barium peroxide, dms. frt. equald. lb. .20 - —
Barium stearate, ctns. c.l., frt. alld. lb. .41 - —
ctns., l.c.l., same basis lb. .42 - .46
Barium sulfate, tech. (see Barytes and blanc fixe).
Barium sulfate, X-ray, dms. lb. .13 - .15½
Barium sulfide, dms., c.l., works. ton. 100.00 - —
dms., l.c.l., works ton. 110.00 - —
Barytes, southern, off-color, bgs., mines ton. 25.00 - —
95-75%, bgs., mines ton. 25.00 - —
white, water-grd., paper bgs., c.l., St. Louis ton. 55.00 -55.25
paper bgs., ex whse., New York ton. 79.85 - —
Battery acid, cbys. c.l. works, E. 100 lbs. 2.35 - —
cbys., l.c.l., works, E. 100 lbs. 2.65 -10.95
Bauxite bulk, mines ton. 7.00 -10.00
Bay oil, NF, Puerto Rican, 50-55%, cns. lb. 2.10 - 3.05
55-60%, cns. lb. 2.50 - 3.05
West Indian, 50-55% cns. dms., lb. 2.30 - 3.00
Bayberry wax, bgs. lb. .45 - .47
Beeswax, crude, African, bgs. lb. 56 - .58
Brazilian, bgs. lb. .67 Nom.
Central American, bgs. lb. .60 Nom.
Chilean bgs. lb. .67 Nom.
Refd., USP, bleached, white, bricks, 100-lb. ctns. lb. .72 - .73
white, slabs, 100-lb. ctns. lb. .71 - .72
yellow, bricks, 100-lb. ctns. lb. .63 - .65
yellow, slabs, 100-lb. ctns. lb. .60 - .62
Belladonna leaf, bls. lb. .30 - —
Belladonna root, bls. lb. .30 - —
Bentonite, dom. 200 mesh, bgs., c.l., mines ton. 14.00 - —
Imp. Italian, white high gel. bgs., 5-ton lots, ex whse. ton. 91.00 - —
bgs., 1-ton lots, ex whse. ton. 94.00 - —
low gel. bgs., 5-ton lots ex whse. ton. 89.35 - —
bgs., 1-ton lots, ex whse. ton. 92.35 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF, dms. lb. .80 - .86
Tech., cbys. dms., t.l. lb. .43 - —
cbys. smaller lots lb. .44 - —
Benzene, coaltar, pure or nitration, tanks, works:
Bethlehem, Pa. gal. .31 - —
Birmingham district gal. .31 - —
Chicago district gal. .31 - —
Cleveland district gal. .31 - —
Geneva, Utah gal. .31 - —
Johnstown, Pa. gal. .31 - —
Lackawanna, N. Y. gal. .31 - —
Lone Star, Tex. gal. .31 - —
Lorain, Ohio gal. .31 - —
Middletown, Ohio gal. .31 - —
Minnequa, Colo. gal. .31 - —
Philadelphia district gal. .31 - —
Pittsburgh district lb. .31 - —
Sparrows Point, Md. gal. .31 - —
Syracuse, N. Y. gal. .31 - —
Terre Haute, Ind. gal. .31 - —
Youngstown, Ohio gal. .31 - —
Benzene, petroleum, nitration or industrial, Houston, Tex., tanks, gal. .31 - —
Benzene hexachloride 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride tech. high gamme, dms., c.l. dlvd. gamma unit-lb. .00825- —
dms., l.c.l., works gamma unit-lb. .009 - .0093
low gamma, dms., c.l. dlvd. gamma unit-lb. .00825- —
dms., l.c.l., works gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
bbls., l.c.l., same basis lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb. 1.21 - —
Benzidine yellow, AAA, bbls. dlvd. lb. 2.30 - —
AAOT, bbls., dlvd. lb. 2.55 - —
Lightfast, bbls., dlvd. lb. 3.40 - —
Benzocaine, dms. lb. 3.48 - 3.50
Benzoic acid, tech., bbls., dms., c.l., t.l., frt., alld lb. .37 - —
bbls., dms., ton lots, same basis lb. .41 - —
bbls., dms., 1,000-lb. lots, same basis lb. .43 - —
USP, bbls., dms., ton lots lb. .48 - —
bbls., dms., 1,000-lb. lots lb. .50 - —
Benzoin gum, Sumatra, cs. lb. .33 - —

Benzol

Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzophenone, dms. lb. 1.40 - 1.70
Benzotriazole, tech., dms., 1,000-lb. lots, works lb. 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt., equald. lb. .21 - —
cbys, smaller lots, frt., equald. lb. .23 - —
Benzoyl chloride, cbys., dms., c.l., works, frt., equald. lb. .22 - —
cbys., l.c.l., same basis lb. .23 - —
tanktrucks, dlvd., Metropolitan area, lb. .21 - —
Benzoyl peroxide, purif., fib. dms., 30 to 1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms. lb. .58 - .79
Benzyl alcohol, NF, dms. lb. .58 - .80
Tech., dms., dlvd. lb. 47½- .65
Benzyl benzoate, USP, NF, 40-lb. dms. lb. .68 - —
Benzyl chloride, tech., cbys., dms., c.l., works, frt., equald. lb. .22½- .25½
cbys., dms., l.c.l., same basis lb. 23½- 25½
tanktrucks, dlvd., Metropolitan area lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal cbys. In steel dms. prices are ½c. lower.
Benzyl cinnamate, cns. lb. 3.30 - 3.60
Benzyl dimethylamine, dms., works. lb. 2.25 - —
Benzyl formate, cns. lb. 1.85 - 2.10
Benzyl isoeugenol, cns. lb. 9.85 - —
Benzyl propionate, bots. lb. 1.35 - 1.65
Benzyl salicylate, bots. lb. 1.60 - 1.85
Benzylidine acetone, bots. lb. 1.75 - 1.80
Benzylidine chloride, (see Benzal chloride).
Berberine bisulfate, cns. lb. 35.00 -36.25
Berberine hydrochloride, bots. lb. 35.00 -36.25
Bergamot oil, nat. NF Italian cns. lb. 12.75 -14.00
Betagammapicoline (see b,g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid)
Betamethylnaphthalene (see b-Methylnaphthalene).
Betanaphthol (see b-Naphthol)
Betanaphthylamine (see b-Naphtholamine)
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, tech.).
Biotin, cryst., bots. gram. 10.00 - —
Biphenyl (see Diphenyl).
Birchtar oil, crude, cns. lb. 1.50 - 1.90
Rectified, cns. lb. 1.75 - 1.85
Bismuth chloride, jars lb. 5.11 - —
Bismuth hydroxide, dms. lb. 4.60 - 4.65
Bismuth metal, bxs., ton lots lb. 2.25 - —
Bismuth nitrate, cryst., dms. lb. 2.08 - 2.17
Bismuth oxide, anhyd., dms. lb. 4.47 - 5.05
Bismuth oxychloride, dms. lb. 4.37 - 4.42
Bismuth subcarbonate, USP dms. lb. 3.20 - —
Bismuth subgallate NF fib dms. lb. 3.15 - —
Bismuth subiodide, fib. dms. lb. 5.37 - —
Bismuth subnitrate, NF dms. lb. 2.65 - —
Bismuth subsalicylate, USP, dms. lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A bgs., c.l., t.l., frt. alld. lb. .30 - —
bgs., l.c.l., same basis lb. .31 - —
Blackberry root bark bls. lb. .50 - .55
Black haw root bark bls. lb. .63 - .65
Black haw tree bark bls. lb. .45 - .50

Black Pigments

Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Blanc fixe, direct process, bgs., c.l., works ton. 145.00 - —
bgs., l.c.l., works ton. 155.00 - —
bgs., l.c.l., New York whse. ton. 195.00 - —
Blood, dried, 16-16½% ammonia New York unit-ton. 6.50 - —
high-grade, unground, 16-17% ammonia bgs. Chicago, unit-ton. 7.25 - —
Blood, dried, soluble, bgs., c.l. lb. .13 - .14
bgs., t.l. lb. .15 - .17
bgs., l.t.l. lb. .15½- .35¼
Bloodroot bls. lb. .48 - .50

Blue Pigments

Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

From Thompsonville to Tasmania, our commerce in botanicals takes us to the least-traveled places at home and overseas.

Wherever botanicals grow, our local representatives and expeditions work with native labor to improve harvesting and curing — and to maintain continuing supply. We have established plantations abroad to assure dependable sources of the more important crops. At home our Meadow Springs Drug Farm has pioneered the scientific cultivation of such vital botanicals as digitalis and belladonna.

For almost half a century, Penick's leadership in botanicals has been based on rare resourcefulness in overcoming the uncertainties of an uncertain business.

Today this resourcefulness is demonstrated not only in botanicals but also in diversified chemical manufacture and distribution. We serve thousands of customers in agriculture, pharmaceuticals, foods, cosmetics and many other industries. In addition our world-wide organization works with many companies confidentially, on a custom basis, making or marketing their bulk products for them.

We will be pleased to serve you.

PENICK

Manufacturers of Fine Chemicals and Drugs

Blue Dyes—Calcium p-Aminosalicylate Trihydrate

Blue dyes (see Dyes)			
Blue vitriol (see Copper sulfate)			
Bois de rose oil, Brazilian, dms.	lb.	2.10	- 2.75
Peruvian, dms.	lb.	1.95	- 2.55
BON acid maroons pure, bbls.	lb.	1.75	- —
Resinated, bbls.	lb.	1.50	- —
Bone black, dms., l.c.l. frt. alld.	lb.	.18	- .22¼
Pacific coast bone black prices 2c. per lb. higher.			
Bonemeal, steamed, works, E	ton.	65.00	- —
Bone phosphate, defluorinated of lime (see Defluorinated phosphate).			
Bone phosphate, precip. (see Calcium phosphate, tribasic)			
Borax, tech., anhyd., 99½%, bgs., c.l., works	ton.	87.50	- —
bgs., ton lots, ex whse. New York or Chicago	ton.	143.75	- —
bgs., smaller lots, same basis.	ton.	148.75	- —
bulk, c.l., works	ton.	78.50	- —
gran., decahydrate, 99½%, bgs., c.l. works	ton.	47.50	- —
bgs., ton lots, ex whse, New York or Chicago	ton.	103.75	- —
bgs., smaller lots, same basis.	ton.	108.75	- —
bulk, c.l., works	ton.	41.00	- —
pentahydrate, 99½%, bgs., c.l., works	ton.	63.00	- —
bgs., ton lots, ex whse, New York or Chicago	ton.	119.25	- —
bgs, smaller lots, same basis.	ton.	124.25	- —
bulk, c.l., works	ton.	56.50	- —
Borax, tech., powd., 99½%, bgs., c.l., works	ton.	52.50	- —
bgs., ton lots, ex whse, New York or Chicago	ton.	108.75	- —
99½%, bgs., smaller lots, same basis	ton.	113.75	- —
USP borax $15 per ton higher.			
Bordeaux powder, tribasic, bgs., c.l., dlvd	lb.	.24	- —
bgs., l.c.l., same basis	lb.	.26	- —
Boric acid, tech., anhyd., 99.9%, bgs., c.l., works	ton.	335.00	- —
bgs., ton lots ex whse, New York or Chicago	ton.	390.00	- —
bgs., smaller lots, same basis.	ton.	415.00	- —
cryst., 99.9%, bgs., c.l., works.	ton.	133.50	- —
bgs., ton lots, ex whse, New York or Chicago	ton.	190.75	- —
bgs., smaller lots, same basis.	ton.	195.75	- —
dms., c.l., works	ton.	158.00	-178.00
dms., ton lots, ex whse, New York or Chicago	ton.	215.25	-235.25
dms., smaller lots, same basis.	ton.	220.25	-240.25
gran., 99.9%, bgs., c.l., works.	ton.	108.50	- —
bgs., ton lots, ex whse, New York or Chicago	ton.	165.75	- —
bgs, smaller lots, same basis	ton.	170.75	- —
dms., c.l., works	ton.	133.00	-153.00
dms., ton lots, ex whse, New York or Chicago	ton.	190.25	-210.25
Boric acid, tech., gran., 99.9%, basis	ton.	195.25	- —
bulk, c.l., works	ton.	102.50	- —
powd., 99.9%, bgs., c.l., works.	ton.	113.50	- —
bgs., ton lots, ex whse, New York or Chicago	ton.	170.75	- —
bgs., smaller lots, same basis.	ton.	175.75	- —
dms., c.l., works	ton.	138.00	-158.00
dms., ton lots, ex whse, New York or Chicago	ton.	195.25	-215.25
dms., smaller lots, same basis.	ton.	200.25	-220.25
USP boric acid $25 per ton higher.			
Borneol, cns.	lb.	2.75	- —
Boron trichloride, CP, 1,800-lb. cyls., works	lb.	1.25	- —
100-lb. cyls., works	lb.	1.70	- —
Boron trifluoride gas, cyls, truckload, works	lb.	.62	- —
cyls., l.t.l., works	lb.	.70	- —
Brazilwood extract (see Hypernic extract).			
Brimstone (see Sulfur).			
Broenner's acid, bbls.	lb.	1.76	- —
Bromine purif. cs., c.l., t.l., dlvd. E of Rockies	lb.	.32	- —
c.s., l.c.l., same basis	lb.	.34	- .39
ret. dms. c.l., t.l., dlvd. E of Rockies	lb.	.31	- —
ret. dms. l.c.l., same basis	lb.	.31	- .34
tanks, same basis	lb.	.21½	- —
Bromochloromethane dms., c.l., frt. equald	lb.	.48	- —
dms., l.c.l., same basis	lb.	.50	- —
tanks, same basis	lb.	.47	- —
Bromoform, pharmaceutical grade, 100-lb. cbys.	lb.	1.80	- 1.90
Bromstyrol, bots.	lb.	5.45	- 5.70
Brucine, cns., 100-oz. lots	oz.	1.26	Nom.
Brucine sulfate, NF, cns., 100-oz. lots	oz.	1.20	Nom.
Buchu leaves, bls.	lb.	1.20	- —

Brown Pigments

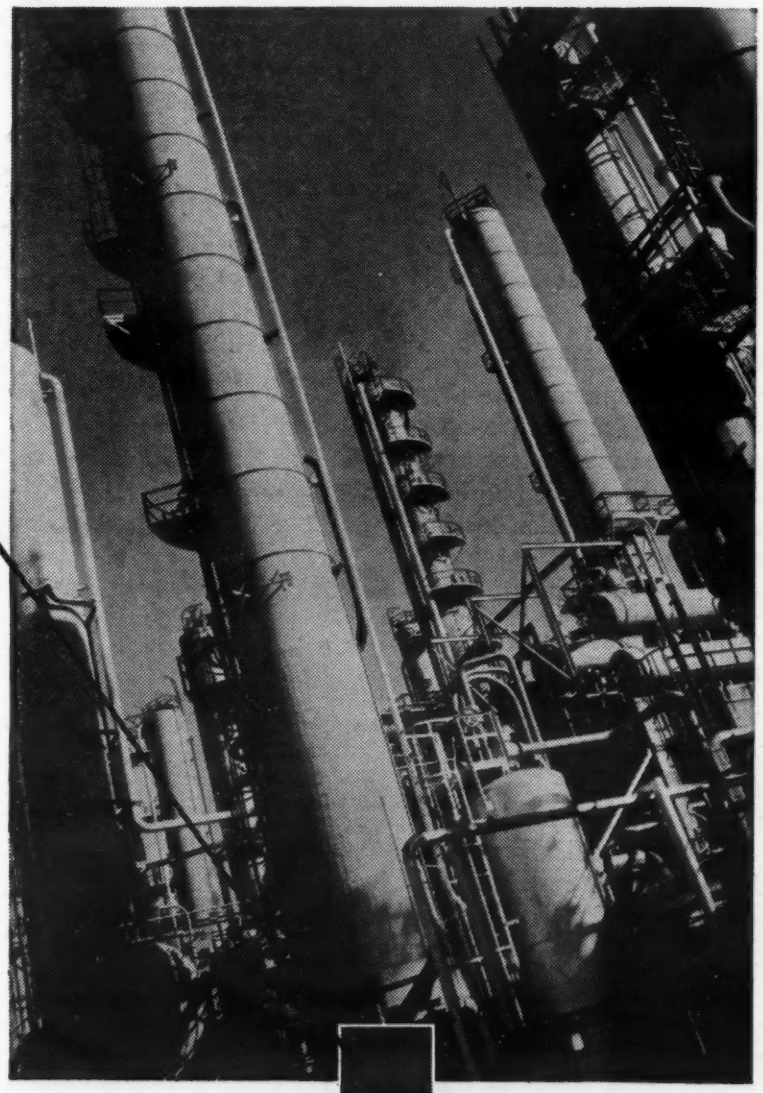
Brown pigment quotations are listed individually. For example, prices on Brown, iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, refd. cyls., c.l., refy.	lb.	.21	- —
cyls., l.c.l., refy	lb.	.22	- —
tanks, contract, refy	lb.	.14½	- .15
Butane, indust., tanks, group 3	gal.	.04	- —
n-Butyl acetate, ferment, dms., c.l., frt. alld.	lb.	.17	- —
dms., l.c.l., same basis	lb.	.18	- —
tanks, same basis	lb.	.14½	- —
Syn., dms., c.l., dlvd. E	lb.	.17	- —
dms., l.c.l., same basis	lb.	.18	- —
tanks, same basis	lb.	.14½	- —
sec-Butyl acetate syn., dms., c.l., dlvd.E	lb.	.14¾	- —
dms., l.c.l., same basis	lb.	.15¾	- —
tanks, same basis	lb.	.12¼	- —
n-Butyl acrylate, dms., c.l. or t.l., straight or mixed frt. alld. E.	lb.	.57½	- —
dms., l.t.l., same basis	lb.	.58½	- —
tanks, same basis	lb.	.55	- —
Prices of n-butyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.			
Butyl alcohol, ferment, dms., c.l., frt. alld.	lb.	.17	- —
dms., l.c.l., frt. alld	lb.	.18	- —
tanks, frt. alld	lb.	.14½	- —
Syn., dms., c.l., dlvd	lb.	.17	- —
dms., l.c.l., dlvd	lb.	.18	- —
tanks, dlvd	lb.	.14½	- —
sec-synthetic, dms., c.l., dlvd	lb.	.15	- —
dms., l.c.l., dlvd	lb.	.16	- —
tanks, dlvd	lb.	.12½	- —
tert-synthetic, dms., c.l., frt. alld. dlvd. E	lb.	.14¾	- —
dms., l.c.l., same basis	lb.	.15¾	- —
tanks, same basis	lb.	.12¼	- —
Butyl aldehyde (see Butyraldehyde).			
Butyl chloride, dms., c.l., works	lb.	.37½	- —
dms., l.c.l., works	lb.	.38¼	- —
n-Butyl ether dms., c.l., works	lb.	.35¼	- —
dms., l.c.l., works	lb.	.36	- —
tanks, works	lb.	.33¼	- —
Butyl lactate, dms., c.l., frt. alld. E. of Rockies	lb.	.42½	- —
dms., l.c.l., same basis	lb.	.43½	- —
tanks, same basis	lb.	.40	- —
Butyl laurate, dms., works	lb.	.37½	- —
Butyl methacrylate, dms., c.l., t.l., works	lb.	.55	- —
dms., l.c.l., works	lb.	.55½	- —
Butyl oleate, refd., dms., l.c.l., works	lb.	.32	- —
Butyl phenylacetate, dms.,	lb.	4.50	4.60
Butyl phthalate (see Dibutyl phthalate).			
Butyl stearate, dms., c.l., frt. alld. E. of Mississippi	lb.	.27¼	- —
dms., l.c.l., same basis	lb.	.28¼	- —
Butylamine (see Mono-, Di- and Tributylamine).			
6-tert-Butyl-m-cresol, dms., c.l., works	lb.	.55	- —
dms., l.c.l., works	lb.	.56	- —
tanks, works	lb.	.54	- —
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).			
p-tert-Butylphenol, bgs., c.l., works,	lb.	.27½	- —
bgs., l.c.l., works	lb.	.28½	- —
Butyraldehyde, dms., c.l., dlvd.	lb.	.22	- —
dms., l.c.l., dlvd.	lb.	.23	- —
tanks, dlvd.	lb.	.19½	- —
Butyric acid, 99%, dms., c.l., frt. equald	lb.	.34	- —
dms., l.c.l., same basis	lb.	.34½	- —
tanks, same basis	lb.	.32½	- —
Butyric ether (see Ethyl butyrate).			

C

Cacao butter (see Cocoa butter).			
Cadmium CP red, dark shade, bbls., frt. alld. E. of Rockies	lb.	5.45	- —
Light shade, bbls., same basis	lb.	4.55	- —
Medium shade, bbls., same basis.	lb.	5.20	- —
Medium light shade, bbls., same basis	lb.	4.80	- —
Orange-red shade, bbls., same basis	lb.	4.20	- —
Yellow, all shades, bbls., frt. alld. E. of Rockies	lb.	3.75	- —
Cadmium iodide, 25-lb. fib. dms.	lb.	6.75	- 7.00
Cadmium metal, ingots or sticks, cs., dlvd	lb.	1.45	- —
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld. E. of Rockies	lb.	1.61	- —
Cadmium-mercury lithopone red, dark shade, bbls., same basis	lb.	1.91	- —
light shade, bbls., same basis	lb.	1.68	- —
Medium shade, bbls., same basis.	lb.	1.83	- —
Medium light shade, bbls., same basis	lb.	1.76	- —
Maroon shade, bbls., same basis	lb.	1.99	- —
Cadmium-selenide lithopone, maroon, bbls., frt. alld. E. of Rockies.	lb.	2.72	- —
Cadmium-selenide lithopone, maroon, dark shade, bbls., same basis	lb.	2.77	- —
Orange, bbls., same basis	lb.	1.54	- —
Red, orange-red shade, bbls., same basis	lb.	1.62	- —
Red, light shade, bbls., same basis,	lb.	1.84	- —
Red, medium-light shade, bbls., same basis	lb.	1.96	- —
Red, medium shade, bbls., same basis	lb.	2.19	- —
Red, dark shade, bbls., same basis.	lb.	2.52	- —
Cadmium-selenide lithopone, yellow, all shades, bbls., frt. alld. E. of Rockies	lb.	1.15	- —
Caffeine, NF, citrated, dms., 100-lb. lots or more	lb.	2.70	- —
Caffeine, USP, nat., cryst., anhyd., 100-lb. lots or more	lb.	2.50	- —
cryst., hydrous, dms., 100-lb. lots or more	lb.	2.33	- —
Syn., cryst., anhyd., dms., 100-lb. lots or more	lb.	2.50	- —
cryst., hydrous, dms., 100-lb. lots or more	lb.	2.33	- —
Cajuput oil, native, cns	lb.	1.75	- 2.55
Redist., USP, cns	lb.	1.90	- 2.10
Calamine, USP, dms.	lb.	.34	- —
Calamus oil, bots	lb.	12.00	-20.00
Calciferol, cryst., 10-kilo or more lots, works	gram.	.54	- —
1-10 kilo lots	gram.	.55	- —
Calciferol, in edible oil (see Viosterol).			
Calcium p-aminosalicylate trihydrate, fib. dms., 100 lbs. or more, frt. adjusted	lb.	4.00	- —

Progress Report from Petro-Tex:



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95% minimum purity

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($CH_3 - CH = CH - CH_3$)
95% minimum purity

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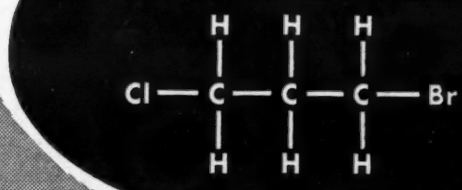
JOINTLY OWNED BY
TENNESSEE GAS TRANSMISSION COMPANY AND FOOD MACHINERY AND CHEMICAL CORPORATION

Calcium arsenate, dealers, bgs., c.l., frt. alld. lb. .09 - .09¼
bgs., l.c.l., same basis ..... lb. .10 - .10½
Calcium bromide, NF, 100 lbs. or more lb. .97 - —
Calcium carbide, standard generator size, 600-lb. dms., c.l., dlvd ton.149.00 - —
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton.10.50 - —
chalk, whiting, 325 mesh, bgs., c.l., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
Calcium carbonate, precip., dense, bgs., c.l., works ton.30.00 -35.00
bgs., l.c.l., works ..... ton.45.00 -50.00
medium, bgs., c.l., works ton.38.00 - —
bgs., l.c.l., works ton.46.00 - —
Calcium carborate, precip., surface treated, bgs., c.l., works ton.40.00 -42.00
bgs., l.c.l., works ton.55.00 -57.00
ultrafine, bgs., c.l., works.ton.117.50 -167.50
bgs., l.c.l., works ..... ton.137.50 -187.50
Calcium chloride, flake, 77-80%, paper bgs., c.l., works, frt. equald ton.31.00 - —
Conc., flake or pellet, 94-97%, paper bgs., c.l., works, frt. equald ton.37.80 - —
paper bgs., c.l., works ton.37.80 - —
Purif., gran., dms. ..... lb. .27 - —
USP, gran., dms. ..... lb. .32 - —
Liquor, 40%, tanks, frt. equald. ton.12.50 - —
Solid, 73-75%, dms., c.l., frt. equald ton.29.50 - —
dms., l.c.l., works, frt. equald. ton.36.00 -73.00
Calcium chromate, bgs., frt. equald. lb. .29½- .30
Calcium cyanide, dms., c.l., dlvd. E. of Rockies lb. .20 - —
dms., l.c.l., same basis lb. .24 - .55
Calcium cyclamate, 100-lb. dms lb. 2.50 - —
Calcium gluconate, AA, dms. lb. .76 - —
USP, dms. ..... lb. .67 - .69
Calcium hydride, lump, dms., works. lb. 2.20 - 3.00
Calcium hypochlorite, high test, 45-lb cs., dlvd. E. of Rockies. cs.22.95 -25.10
100-lb. dms., same basis ... dm.30.80 -34.50
Calcium hypophosphite, dms., 1,000-lb lots lb. 1.28 - —
Calcium iodide, jars ..... lb. 4.52 - —
Calcium lactate, NF, dms., 10,000-lb. lots or more, works lb. .36 - .40
smaller lots, works ... lb. .41 - .48
Calcium mandelate, USP, dms., works lb. 2.10 - 2.25
Calcium naphthenate, liq., 4% Ca., dms., frt. equald lb. .30 - —
Calcium pantothenate, dms., frt. adjusted kilo.35.00 - —
Calcium para-aminosalicylate (see Calcium p-aminosalicylate).
Calcium phenolsulfonate, dms. lb. .99 - 1.00
Calcium phosphate, dibasic, USP, bgs., c.l., frt equald 100 lbs. 8.25 - —
bgs., l.c.l., frt. equald 100 lbs. 9.00 - —
Feed grade, 18½% P, bgs., c.l., t.l., frt. equald ton.83.25 - —
bgs., c.l., t.l. f.o.b. Texas City works ton.77.70 - —
bgs., l.c.l., frt. equald ton.93.25 - —
21% P., bgs., c.l., t.l., frt. equald ton.94.50 - —
bgs., l.c.l., frt. equald ton.104.50 - —
Prices of calcium phosphate dibasic in bulk $3 per ton less than bg., c.l. prices
Calcium phosphate, monobasic, bgs., 10,000-lb. lots, frt. equald. 100 lbs. 7.45 - —
bgs., smaller lots, same basis, 100 lbs. 7.95 - —
Calcium phosphate, tribasic, NF, precip., bgs., c.l., works, frt. equald 100 lbs. 9.25 - —
bgs., l.c.l., frt. equald. 100 lbs.10.00 - —
Calcium phytate bgs., works ... lb. .50 - —
Calcium resinate precip, dms ton. lots, frt. alld., works lb. .36¼- —
Calcium silicate, hydrated, bgs., c.l., works lb. .06 - —
bgs., l.c.l., works ..... lb. .06½- —
Calcium silicate, paint grade (see Wollastonite).
Calcium stearate, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Calcium sulfate (see Gypsum)
Calomel, NF X, powd., 100-lb. dms.lb. 5.42 - —
Camphene 46° m.p., dms. incl., c.l., works lb. .15 - —
dms. incl., l.c.l., same basis lb. .16½- —
tanks, same basis ..... lb. .12½- —
Camphene, chlorinated 67-69% (see Toxaphene)
Camphor monobromated NF dms., kgs lb. 3.63 - 3.70
Camphor, nat., USP powd. cs., 100-lb. lots lb. .60 - .65
tablets, 1-oz. cs. ... lb. .85 - .90
USP, gran., powd. bbls., 2,000-lb. lots lb. .59 - —
Syn., USP, gran., powd., bbls., 1,000-lb. lots lb. .60 - —
bbls., smaller lots ..... lb. .61 - —
tablets, ctns., 1,000-lb. lots lb. .85 - —
ctns. 500-lb. lots ..... lb. .86 - —
ctns. smaller lots..... lb. .87 - —
tech., 1 bbl. or more ..... lb. .48 - —
Camphor oil, sassafrassy, dms. . lb. .40 - .65
White, dms. ..... lb. .29 - .50
Cananga oil, native, cns. ..... lb. 7.25 - 8.00
Rectified, cns. ..... lb. 9.55 -11.25
Candelilla wax, crude, bgs. .... lb. .53 - .54
Refd., bgs. ..... lb. .59 - .61
Powdered Candelilla wax 20 to 100 mesh, 8c. higher.
Cantharides, Chinese, cs. ..... lb. 2.00 - 2.05
powd., bxs. ..... lb. 2.25 - 2.30
Russian, bgs. ..... lb. 2.75 - —
powd., bxs. ..... lb. 3.00 - 3.25
Capric acid, CP, dms. ..... lb. .28½- .31
tanks ..... lb. .26 - —
Capryl alcohol, 85% dms., c.l., and t.l., works lb. .19 - —
dms., l.t.l., same basis ..... lb. .19½- —
tanks, frt. equald ..... lb. .16½- —
Sec. 92-99%, dms., c.l. ..... lb. .22 - —
dms., l.c.l. ..... lb. .23 - —
tanks ..... lb. .19½- —
Caprylic acid, dms. ..... lb. .28½- .31
tanks ..... lb. .26 - —
Capsicum (see Pepper red).
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin, NF, from dom. pepper, dms lb. 4.00 - 4.75
NF, from African pepper, dms lb. 4.50 - 5.25
Caraway, oil, dms. ..... lb. 2.75 - 3.50
Caraway seed, Dutch, bgs. ..... lb. .12 - —
Polish, bgs. ..... lb. .11 - —
Carbazole, 97%, bbls. ton lots works lb. 1.03 - —
Carbon black, channel, rubber, beads, bulk, c.l., works lb. .07¼- —
bgs., c.l., works ..... lb. .07¾- —
bgs., l.c.l., works ..... lb. .14½- —
Furnace, fast extruding, bgs., c.l., works lb. .06¾- —
ctns., l.c.l., whse. ..... lb. .12½- —
high abrasion, bulk, c.l., works. lb. .07¼- —
bgs., c.l., works ..... lb. .07¾- —
bgs., l.c.l., dlvd. or whse lb. .13½- —
high modulus, bgs., c.l., works. lb. .06¼- —
ctns., l.c.l., whse. ..... lb. .12 - —
semi-reinforcing, bgs. c.l., works. lb. .05¾- —
bgs., ctns., l.c.l., whse ... lb. .11½- —
Carbon black, pigment, high color beads, ctns., c.l., works lb. .72 - —
ctns., l.c.l., dlvd. or whse lb. .79 - —
medium color, uncompressed, bgs., c.l., works lb. .13½- —
bgs., l.c.l., dlvd. or whse. . lb. .21 - —
Carbon dioxide indust. wholesale, bulk, dlvd., Metropolitan area. .ton.73.00 -115.00
50-lb. cyls., dlvd. ..... lb. .09 - .11
Solid, bulk, wholesale, works .ton.85.00 - —
Carbon disulfide, 55-gal. dms. c.l., works, frt. equald to competitive points lb. .07 - —
55-gal. dms. l.c.l., same basis lb. .06½- .09
5-gal. dms., 30 dms. to c.l., same basis lb. .13 - —
5-gal. dms., less than 30 dms., same basis lb. .18 - —
tanks, dlvd. ..... lb. .0545- —
Carbon tetrachloride, CP, consumers, dms., c.l., frt. alld. lb. .12¾- —
dms., l.c.l., frt. alld. ..... lb. .15¼- —
Carbon tetrachloride, tech., consumers, dms., c.l., t.l., frt. alld. lb. .11¾- —
dms., l.c.l., l.t.l., frt. alld. lb. .14½- —
tanks, frt. alld. ..... lb. .10¾- .11¼
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
dms., smaller lots, works.... lb. 4.10 - 4.75
Cardamom oil, NF, bots. ..... lb.45.00 -55.00
Cardamom seed, bleached, "A". lb. 2.95 - —
Bleached, "B" ..... lb. 2.80 - —
Decorticated Alleppey, cs..... lb. 2.85 - —
Guatemala, cs. ..... lb. 2.75 - —
Green, Alleppey, bgs..... lb. 2.15 - —
Ceylon, bgs. ..... lb. 2.25 - —
Carmine No. 40, NF, bulk, 100-lb. lots or more, dlvd. .. lb.16.80 - —
bulk, smaller lots, dlvd. ..... lb.16.90 -17.30
Carnauba wax, chalky, bgs., ton lots lb. .68 - .69
North country, No. 2, crude, bgs., ton lots lb. .76 - .77
refd., pure, ton lots ..... lb. .92 - .93
North country, No. 3, Ceara, crude, bgs., ton lots lb. .70 - .73
Ceara, refd., pure, bgs., ton lots lb. .79 - .80
Parnahyba, crude, bgs., ton lots lb. .71 - .73
Parnahyba, refd., pure, bgs., ton lots lb. .79 - .80
Carnauba wax, yellow, No. 1, Ceara, bgs., ton lots lb. 1.18 - 1.20
Parnahyba, bgs., ton lots lb. 1.20 - 1.22
Powdered carnauba wax, 20 to 100 mesh, 8c. higher.
Carotene, tech., 1,350,000 A units per gram, tins 5-10 kilo lots, dlvd gram. .24½- —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
USP, microcrystalline in oil, 400,000 A units per gram., dms., dlvd million units .174 - —
b-Carotene in vegetable oil, semi-solid suspension, 400,000 A units per gram. cns kilo.69.60 - —
Liquid in vegetable oil, 500,000 A units per gram., cns kilo.87.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram., cns. gram. .39 - —
Carvol, bots. ..... lb. 5.00 - 5.40
Cascara sagrada bark, bulk..... lb. .39 - —
Casein, dom., edible, acid precip., 30 mesh., bgs., 10,000-lb. lots or more, works lb. .56 - —
edible, acid, precip., 80 mesh, bgs., 10,000-lb lots or more, works lb. .64 - —
Imp., inedible, acid-precip. grd., Argentine, bgs., c.l., ex-dock, Eastern seaports ..... lb. .19 - .19¼
New Zealand, bgs., c.l., same basis lb. .24 - .24¼

For a versatile, multipurpose intermediate

try TMCB



1-Bromo-3-chloropropane
(Trimethylene Chlorobromide; TMCB)

TRIMETHYLENE CHLOROBROMIDE IS UNMATCHED as a versatile and reactive intermediate for the formation of long-chain aliphatic hydrocarbon derivatives, and it offers many possibilities for substitution reactions. It can be cyclized and is thus effectively employed in the manufacture of anaesthetic grade cyclopropane.

The 3-carbon chain is readily extended by replacement of the bromine atom in reactions with cyanides, Grignard reagents, various amines, metal alkylates and similar groups. This results in chloropropyl compounds such as:

Chloropropyl cyanide
Chloropropyl quaternary ammonium bromide
Chloropropyl dialkyl amines

The chlorine atom can be left intact for further reactions by which symmetrical or unsymmetrical substituted propanes are formed.

TMCB is clear, colorless liquid — pure and highly stable. The boiling range is 2°C. maximum.

Michigan Chemical Corporation is your dependable source of supply for this and other intermediates. TMCB is available promptly in small quantities for experimental purposes, in 700-pound nonreturnable drums, and in 50,000 pound tank-car lots.

For further information, samples or prices, write or phone us.

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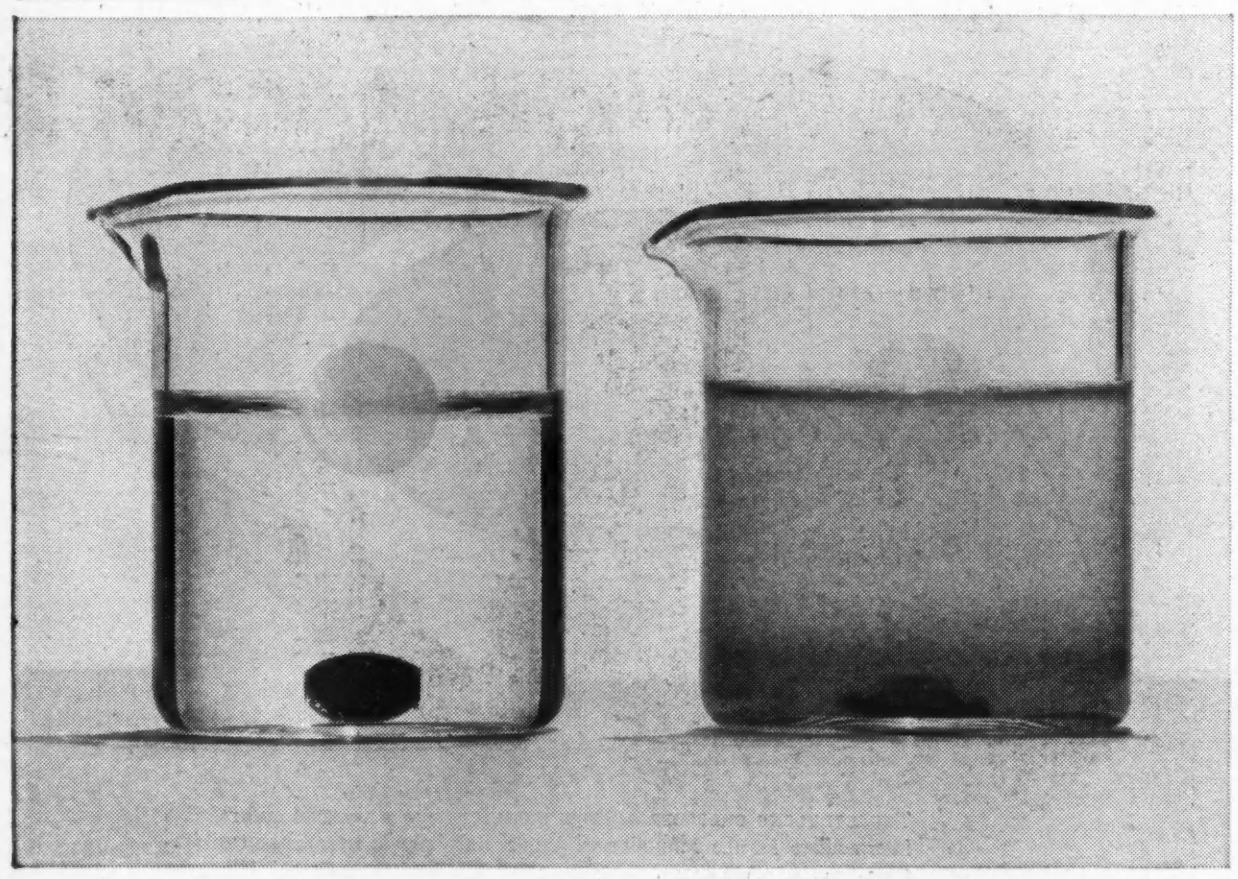
BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Cashewnut Shell Liquid—Citral

Cashewnut shell liquid, treated dms., c.l., Newark, N. J. lb. .22 - —
dms., ton lots, same basis lb. .23 - —
dms., dm. lots, same basis lb. .25 - —
Cassella acid, dms., frt. alld., 100% basis lb. 1.44 - 1.75
Cassia, Padang, "A," bls. lb. .34 - —
"B" lb. .33 - —
"C" lb. .32 - —
Korintje "A" lb. .34 - —
"B" lb. .33 - —
"C" lb. .32 - —
Cassia oil (see Cinnamon leaf oil, USP).
Castor oil, dom., blown, dms., c.l. lb. .2650- —
dms., l.c.l. lb. .2750- —
dehydrated, bodied, dms., c.l. lb. .2750- —
dms., l.c.l. lb. .2910- —
tanks lb. .2600- —
unbodied, dms., c.l. lb. .2560- —
dms., l.c.l. lb. .2760- —
tanks lb. .2460- —
hydrogenated, bgs., ton lots lb. .3125- —
bgs., l.c.l., dlvd. lb. .3350- —
No. 1, dms., c.l. lb. .2300- —
dms., l.c.l. lb. .2400- —
tanks lb. .20½- —
No. 3, tech., dms., c.l. lb. .22¼- —
dms., l.c.l. lb. .23¼- —
tanks lb. .20¼- —
Refd. and deodorized, dms., c.l. lb. .2750- —
dms., l.c.l. lb. .2850- —
USP, dms., c.l. lb. .2450- —
dms., l.c.l. lb. .2550- —
tanks lb. .2250- —
Imp., No. 1, Brazilian, tanks lb. .1600- —
Castor oil, sulfonated, 50%, dms., works lb. .15 - .15¼
75%, dms., works lb. .19 - .20
Castor oil acids, dehydrated, dms. lb. .44¼- .46¼
split, dms. lb. .37¼- .38¼
Castor pomace, bgs., c.l., works ton 37.50 - —
Castoreum, nat., cns. lb. 5.25 - —
Syn., cns. lb. 9.00 - —
Catechol, CP, cryst., fib., dms., works lb. 2.17½- —
Resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls. lb. .75 - —
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic).
Cedarleaf oil, USP XIII cns., dms. lb. 2.85 - 3.75
Cedarwood oil, cns., dms. lb. .80 - .90
Celery seed, French, bgs. lb. .30 - —
Indian, bgs. lb. .19½- —
Celery seed, French, ogs. lb. .29 - —
Cellulose acetate, flake, powd., bgs. ctns., 100-lb. lots or more, dlvd., E. lb. .35 - .45
Cellulose acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .595 - .605
38% butyryl content, bgs., dlvd. E lb. .545 - .555
38% butyryl content, half-second, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd., E lb. .585 - .595
Cellulose gum, methyl (see Methyl Cellulose).
Cellulose gum, pure, high vis., bgs., 23,000-lb lots or more works, frt. alld. lb. .57 - —
bgs, smaller lots, same basis, lb. .59 - —
Cerium chloride 48% dms. dlvd lb. .30 - —
Cerium hydrate 74% CeO fib dms., 100-lb. lots or more lb. 1.40 - —
77%CeO fib dms. 100-lb. lots or more lb. 1.74 - —
Cerium oxalate (see Rare earth oxalate).
Cerium oxide, optical grade, bgs., 50-lb lots or more, dlvd lb. 1.85 - 1.98
bgs., smaller lots, dlvd lb. 2.03 - 2.23
Cetyl alcohol, extra fib cns., 500-lb. lots or more lb. .65 - .72
NF, fib cns. 140-lb lots or more. lb. .48 - —
Chalk (see Calcium carbonate).
Chamomile flowers Hungarian style, bls lb. Nom. - —
Roman, cs. lb. 2.25 - —
Chamomile oil, blue Hungarian, bots lb. 350.00 - —
Charcoal, activated, NF, fib dms. c.l., works lb. .25 - .32
fib. dms., 5-ton lots, works lb. .26½- .32½
fib. dms., smaller lots, works lb. .27 - .50
Charcoal, black (see Charcoal, activated).
Charcoal bone (see Bone black).
Charcoal, hardwood, lump, bulk, c.l., f.o.b. plant ton 55.00 - —
briquets, bulk, c.l., f.o.b. plant ton 78.00 - 80.00
5-lb. paper bgs., c.l., same basis ton 106.00 - —



This lecture-table stunt demonstrates the enteric-coating idea in vivid if unsophisticated terms. Standardized U.S.P. testing procedure adds the factor of mechanical agitation.

This is artificial gastric juice at pH 1.5. The tablet was coated with Eastman C-A-P Cellulose Acetate Phthalate. In 24 hours nothing has happened.

This is artificial intestinal juice at pH 7.5. Tablet identical with the one on the left has completely disintegrated in one hour.

For medicaments that should get to the intestine

There are medicaments already developed which would be more useful if only you could get them from the mouth to the intestine.

Now is a good time to re-evaluate such medicaments, perhaps to reactivate products having side effects that enteric coatings might eliminate.

For now you can readily turn to *Eastman C-A-P Cellulose Acetate Phthalate*. The troubles encountered with the enteric coating substances of the past are gone.

Eastman C-A-P Cellulose Acetate Phthalate depends not on the solvent action of water, not on a reliable rate of stomach voiding, not even entirely on alkalinity in the intestine. It depends on the total chemical climate of the intestine.

The material has been used on more than a billion tablets and has taken them intact into the intestine, where they can do the most good. It permits the use of high-speed coating techniques. It is compatible with certain plasticizers.

Eastman C-A-P Cellulose Acetate Phthalate is a free-flowing white powder that's easy to weigh and measure. It doesn't stick. It stays stable in 10- and 50-kilo drums in cool, dry storage.

Full data, including prices, are obtained by writing to *Distillation Products Industries,* Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies, Inc., West Coast • Charles Albert Smith Limited, Montreal and Toronto.

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Also ... vitamins A and E... distilled monoglycerides

... some 3700 Eastman Organic Chemicals for science and industry

DPi

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Charcoal, hardwood, briquets, 10-lb. paper bgs., c.l., same basis ton 96.00 - —
25-lb. paper bgs., c.l., f.o.b. plant ton 87.00 - —
40-lb. paper bgs. c.l., same basis ton 84.00 - —
Chenopodium oil, NF, cns. lb. 4.35 - 5.25
Chestnut extract, imp. solid, 60% tannin, bgs., ex dock lb. .0855- —
powd., 68% tannin, bgs., ex dock lb. .0969- —
Chicago acid paste, bbls. frt. alld. lb. 3.21 - —
Chinawood oil (see Tung oil).
Chloral, tech, 94% min., dms., c.l., works lb. .23 - —
dms., l.c.l., works lb. .24 - —
tanks, multiple units, 5 cars, works lb. .21 - —
Chloral hydrate, USP, jars, 1,000-lb lots lb. 1.00 - —
jars, 500-lb. lots lb. 1.03 - —
jars, 100-lb lots or less lb. 1.05 - —
Chlordan, agricultural dms., c.l., frt. alld lb. .65 - —
dms. l.c.l. 5,000 to 10,000-lb. lots, frt. alld lb. .66 - —
Clarified, dms., c.l., frt. alld lb. .69 - —
dms., l.c.l., 5,000-10,000-lb lots, frt. alld lb. .70 - —
Chlorinated paraffin, 40%, dms., c.l. frt. alld lb. .16¼- —
dms. l.c.l. 10 dms. or more, same basis lb. .17¼- —
70%, dms., c.l., same basis lb. .18½- —
dms. l.c.l. 10 dms. or more, same basis lb. .19½- —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 - —
ctns., l.c.l., works lb. .61 - —
125, 1,000 cps., ctns., c.l., works, lb. .70 - —
ctns., l.c.l., works lb. .71 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .11 - —
cyls., l.c.l. Metropolitan area lb. .12½- .13¾
tanks, single units, works, frt. equald 100 lbs. 3.15 - —
tanks, multiple units, 5 cars, works, frt. equald 100 lbs. 4.05 - —
Chlorine, liq., tanks, multiple units, 4 cars, same basis 100 lbs. 4.25 - —
tanks, multiple units, 2 cars, same basis 100 lbs. 5.25 - 5.75
tanks, multiple units, 1 car, same basis 100 lbs. 6.25 - 7.25
Chloroacetic acid, mono, flake, 99%, dms., c.l lb. .23½- .25½
dms., l.c.l. lb. .24½- —
tech. flake, 96-97%, dms., c.l., frt. equald lb. .19 - —
dms., l.c.l., frt. equald lb. .20 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., c.l., frt. alld. lb. .78 - —
dms., l.c.l., same basis lb. .80 - —
tanks, same basis lb. .76 - —
o-Chloroaniline, dms., c.l., frt. alld. lb. .52 - —
dms., l.c.l., same basis lb. .54 - —
tanks, same basis lb. .50 - —
p-Chloroaniline, dms., c.l., frt. alld. lb. .77 - —
dms., l.c.l., same basis lb. .79 - —
o-Chlorobenzaldehyde, dms., t.l., works, dlvd. to N.Y. Metropolitan area lb. 1.05 - —
dms., l.t.l., same basis lb. 1.20 - —
p-Chlorobenzaldehyde, dms., l.c.l., works, dlvd. to N. Y. Metropolitan area lb. 1.95 - —
o-Chlorobenzoic acid, fib. dms., t.l., works lb. 1.10 - —
fib. dms., smaller lots, works lb. 1.25 - —
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works, lb. 2.25 - —
fib. dms., less than 2,000-lbs., same basis lb. 2.30 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms. lb. .30 - —
2-Chloro-4-nitroaniline, paste, dlvd. E. 100% basis lb. .81 - —
Powd. dlvd. E. 100% basis lb. .86½- —
4-Chloro-2-nitroaniline, powd. dlvd. E lb. .80½- —
o-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., l.c.l., same basis lb. .38 - —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., l.c.l., same basis lb. .38 - —
Chloropicrin, coml., cyls., 180 lbs., frt. alld lb. 1.07 - —
cyls., 100 lbs., same basis lb. 1.08 - —
cyls., 50 lbs., same basis lb. 1.14 - —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465- —
dms., l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —
Chlorosulfonic acid, in stainless steel dms. ½c. per lb. higher
Choline bitartrate fib. dms., frt. adjusted kilo. 2.75 - 3.00
Choline chloride fib. dms., frt. adjusted kilo. 2.75 - 3.00
Choline dihydrogen citrate, fib. dms., frt. adjusted kilo. 2.75 - 3.00
Chrome green, CP, dark, light medium blue content 1-15%, bbls., dlvd. E. of Rockies lb. .40 - .42
blue content 16-30%, bbls., same basis lb. .40 - .42
blue content 31-45%, bbls., same basis lb. .41 - .43
blue content 45-49%, bbls., same basis lb. .44 - .46
Reduced color, 25% lb. .19 - .20
Chrome green prices 1c. higher W. of Rockies.
Chrome orange, CP, bbls., dlvd. E. of Rockies lb. .35 - —
Chrome orange prices 1c. higher W. of Rockies.
Chrome yellow, CP, bbls., dlvd. E. of Rockies lb. .35 - —
Chrome yellow price 1c. higher W. of Rockies.
Chromic acid, 99¾% dms., c.l., works, frt. equald lb. .29½- —
dms., l.c.l., dlvd. N. Y. Metropolitan area lb. .30 - .31
Chromic acid, NF (see Chromium trioxide).
Chromium acetate, soln., 7½%, bbls., works lb. .09½- —
cbys., works lb. .11¼- —
Chromium fluoride, bbls., works lb. .51 - .52
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld. lb. 1.20 - —
Pure, bgs., c.l., frt. alld. lb. .44½- —
bgs., l.c.l., same basis lb. .45¼- —
Chromium trioxide, NF, bots. lb. 1.15 - —
Cinchona bark, NF, red, broken, bgs. lb. .35 - .40
NF, yellow, broken, bgs. lb. .35 - .40
Cinnamic acid refd. bots. lb. 2.50 - 3.50
Cinnamic alcohol, bots. lb. 1.90 - 2.20
Cinnamic aldehyde, dms. lb. .95 - 1.25
Cinnamon, Ceylon No. 2, bgs. lb. .72 - —
Ceylon, "0000," bgs. lb. .96 - —
Cinnamon bark oil, bots. lb. 35.00 - 70.00
Cinnamon leaf oil, crude, dms. lb. 1.35 - 2.00
USP (Cassia), cns., dms. lb. 8.50 - 13.50
Citral, CP, bots. lb. 3.40 - 3.85
Extra, bots. lb. 4.85 - 5.05

Citric acid, USP, anhyd., fine gran., bgs., dms., c.l.	lb.	.29½- .30
bgs., dms., 10,000-lb. lots, 1 shipt.	lb.	.30 - .30½
bgs., dms., smaller lots	lb.	.30½- .31
hydrous, fine gran. bgs., dms., c.l.	lb.	.27½- .28
bgs., dms., 10,000-lb. lots, 1 shipt.	lb.	.28 - .28½
bgs., dms., smaller lots	lb.	.29 - .29½
Powdered citric acid ½c. higher		
Citronella oil, Ceylon, dms.	lb.	.58 - 1.00
Java-type, dms.	lb.	.57 - 1.00
Citronellal, bots., dms	lb.	1.45 - 2.10
Citronellol, bots., dms	lb.	2.60 - 3.75
Civet, artif., bots.	lb.	13.75 -15.00
Nat., bots.	oz.	8.50 -15.00
Clay, ball., dom., airfloated, bgs., c.l., Tenn	ton.	17.50 -21.50
crushed, shed moisture, bulk, c.l., Tenn	ton.	8.00 -11.00
Imp., airfloated, bgs., c.l., Atl. port net	ton.	42.00 -45.75
lump, bulk, Atl. port net	ton.	29.50 -35.75
Clay, China, dom., dry-grd., airfloated, 99%, 325 mesh, Georgia, bgs., c.l., works	ton.	10.00 -12.00
Georgia, bgs., l.c.l. works	ton.	15.50 - —
300 mesh bgs., c.l., Georgia, works	ton.	13.50 -14.50
bgs., l.c.l., ex-whse	ton.	35.00 -36.00
Imp., white, lump, bulk, c.l., ex dock, Philadelphia, Portland, Me. long-ton.		20.00 -35.00
powd., bgs., c.l., ex dock. net-ton.		50.00 - —
bgs., l.c.l., ex whse. net-ton.		60.00 -70.00
Cleve's acid, mixed, bbls.	lb.	1.05 - —
Cloves, Madagascar, bgs.	lb.	.41 - —
Zanzibar, bgs.	lb.	.44 - —
Clove bud oil, USP, dms.	lb.	2.60 - 3.35
Clove leaf oil, crude, dms	lb.	1.00 - 1.35
CMC, crude, 96.4% low or medium vis. bgs. or fib. dms., 23,000 lbs., dlvd. E., 100% basis	lb.	.41½- —
CMC, crude, 96.4% low, or medium vis., bgs., or fib. dms., less than 23,000 lbs. dlvd. E., 100% basis	lb.	.43½- —
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis	lb.	.41½- —
bgs. or fib. dms., l.c.l., dlvd. E., 100% basis	lb.	.43½- —
CMC, purif. high vis. (see Cellulose gum).		
CMC, standard, low or medium vis., bgs., 23,000 lbs., works, frt. alld	lb.	.57 - —
bgs., smaller lots, same basis.	lb.	.59 - —
CMC prices W. of the Rockies are 2c. per lb. lower and are on a works basis.		
Coaltar, crude, resale for solns., tanks, works	gal.	.16 - —
Refd., resale indust., dms., c.l., ex whse.	gal.	.35 - —
dms., l.c.l., ex whse.	gal.	.39 - —
tanks, works	gal.	.20½- —
Coaltar pitch, aluminum, bulk, works	ton.	44.00 - —
Carbon and indust., bulk, works.	ton.	44.00 - —
Core, bulk, works	ton.	40.50 - —
Fiber, bulk, works	ton.	48.00 - —
Roofing, 140-155°F., Federal Specification RP-381 Type 1, tanks, works	ton.	41.00 - —
Cobalt acetate 23.7% Co. dms. dlvd.	lb.	1.10 - —
Cobalt blue, genuine, 250 lb. bbls., dlvd. E. of Rockies	lb.	4.90 - —
Cobalt blue prices 1c. higher W. of Rockies.		
Cobalt blue imitation (see Ultramarine blue).		
Cobalt carbonate, 48% Co., powd., bgs., dlvd	lb.	1.57 - —
Cobalt chloride, 24.2% Co., dms., dlvd	lb.	1.05 - —
Cobalt hydrate 60-61% Co., dms., dlvd.	lb.	2.20 - —
Cobalt linoleate, fused 8½% Co., dms	lb.	.71½- —
Liq., 6% Co., dms.	lb.	.57½- —
Cobalt metal, 97-99%, kgs., ex whse.	lb.	2.00 - —
Cobalt naphthenate liq., 6% Co., dms., dlvd	lb.	.48¾- —
Cobalt nitrate, 20.1% Co. bbls. dlvd.	lb.	.85 - —
Cobalt oxide, black, 72½-73½% Co., kgs	lb.	1.52 - —
70-71% Co., kgs.	lb.	1.48 - —
Cobalt phosphate, powd., 32.1% Co., kgs., dlvd	lb.	1.43 - —
Cobalt resinate, fused, 3% Co. dms.	lb.	.29½- —
Cobalt sulfate, cryst., 21% Co, dms., dlvd	lb.	.69 - —
Cobalt sulfate, monohydrated, 33% Co, dms., dlvd	lb.	1.17 - —
Cobalt tallate, 6% Co, dms., dlvd.	lb.	.44 - —
Cocaine, USP, cns., 100-oz. lots	oz.	17.80 - —
Cocaine hydrochloride, cns., 100-oz. lots	oz.	13.75 - —
Cocillana bark, bls.	lb.	.22 - —
Cocoa butter, bgs.	lb.	.87 - .92
Coconut oil, crude, tanks, New York	lb.	.15¾- .15⅞
tanks, Pac. coast	lb.	.15⅛- —
Refd., deodorized, dms., l.c.l.	lb.	.24 - —
Coconut oil acids, dist., dms.	lb.	.23½- .26
tanks	lb.	.21 - —
double dist. (stripped), dms.	lb.	.24½- .27
tanks	lb.	.22 - —
Cod oil, dms., spot	lb.	.09¾- .09½
Codeine, NF, cns., 100-oz. lots	oz.	13.25 - —
Codeine hydrochloride, cns., 100-oz. lots	oz.	11.75 - —
Codeine phosphate, USP, cns., 100-oz. lots	oz.	10.25 - —
Codeine sulfate, USP, cns., 100-oz. lots	oz.	10.75 - —
Codliver oil, USP, dms.	gal.	1.40 - 1.45
Cohosh root, black, bls.	lb.	.20 - .22
Blue, bls.	lb.	.20 - .22
Colchicine, USP, bots.	oz.	27.50 -31.00
Colchicum root, bls.	lb.	.35 - —
Colchicum seed, bgs.	lb.	.55 - —
Collodion, USP, dms.	lb.	.32½- —
Flexible, dms.	lb.	.34 - —
Colocynth pulp, bls.	lb.	.72 - —
Colombo root, bls.	lb.	.15 - .16
Condurango bark, bls.	lb.	.26 - —
Congo copal gum, No. 1, bgs.	lb.	.25 - .26
No. 2 bgs.	lb.	.22 - .24
No. 3, bgs.	lb.	.15¾- .17
Copaiba balsam, cns., dms.	lb.	.40 - .80
Copaiba oil, cns.	lb.	1.75 - 2.50
Copper acetate, bbls., c.l., works.	lb.	53 - —
bbls., l.c.l., works	lb.	.54 - —
Copper carbonate, 55%, bgs., c.l., works	lb.	.3250- —
bgs., l.c.l., works	lb.	.34 - —
Copper chloride, cupric, anhyd., dms., works	lb.	.42½- .43
Cryst., dihydrate, dms., works,	lb.	.28¾- .29¼
Cryst., dried, dms., works	lb.	.37 - .37½
Copper chloride, cuprous, dms., works	lb.	.37½- .40½
Copper cyanide, tech., dms., 20,000-lb. lots or more	lb.	.609 - —
dms., 1,000-lb. lots or more	lb.	.619 - —
dms., smaller lots	lb.	.639 - .659
Copper gluconate, dms.	lb.	3.20 - —
Copper hydrate, dms., c.l., frt. alld. E. of Miss	lb.	.47¼- —
dms., l.c.l., same basis	lb.	.47¾- —
Copper metal, electrolytic, dlvd. Valley basis	lb.	.27½- —
Copper naphthenate, liq., 8% Cu, dms., frt. alld	lb.	.26½- —
Copper nitrate, tech., cryst., dms., works	lb.	.29 - .31
Copper oleate, solid, 9% Cu, dms., works	lb.	.45 - —
Copper oxide, black, bbls., 100-5,000-lb. lots, works	lb.	.43¾- —
Copper oxide, red, 97%, USN, Type I, bbls., 100-5,000-lb. lots.	lb.	.41½- —
90% USN Type II, bbls., 100-5,000-lb. lots or more, works	lb.	.39½- —
Copper oxychloride, dms., c.l., works	lb.	.52 - —
dms., l.c.l., works	lb.	.53½- .63½
Copper quinolinolate, 18% Cu, dms., ton lots	lb.	4.25 - —
10% active quinolinolate, dms	lb.	1.14 1.15
Copper resinate, precip, dms., frt. alld	lb.	.36½- —
Copper sulfate, CP, gran., dms., works	lb.	.1830- —
Cryst., 99%, bgs., c.l., works. 100 lbs.		11.30 - —
bgs., l.c.l., same basis 100 lbs.		11.80 -14.30
Copper sulfate, monohydrated, 35%, dms., c.l., works 100 lbs.		21.55 - —
dms., c.l., works 100 lbs.		22.60 - —
Copper sulfate tribasic, distributors, bgs., c.l., same basis, 100 lb.		25.65 - —
bgs., l.c.l., same basis 100 lbs.		26.65 -29.65
Copper undecylenate, dms.	lb.	2.75 - —
Copra, Atl., Gulf ports, c.i.f.	ton.	208.00 - —
Pac. ports, c.i.f.	ton.	203.00 - —
Coriander oil, USP, bots.	lb.	8.50 -11.50
Coriander seed, Moroccan, bgs.	lb.	.09 - —
Rumanian, bgs.	lb.	.07 - —
Yugoslavian, bgs.	lb.	.08½- —
Corn oil, crude, tanks, works	lb.	.12¼- —
Foots (soapstock) acid 95%, tanks, New York	lb.	.04¾- —
Refd., salad, dms	lb.	.1798- .1825
tanks	lb.	.1598- —
Corn oil, acids, dist., dms.	lb.	.17¼- .20
tanks	lb.	.14¾- —
Corn starch (see Starch, corn).		
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min.	100 lbs.	7.33 - —
paper bgs., l.c.l.	100 lbs.	7.58 - —
Corn syrup, 42° Be. non-ret. dms., c.l.	100 lbs.	7.31 - —
non-ret. dms., l.c.l.	100 lbs.	7.46 - —
Corrosive sublimate (see Mercuric chloride).		
Cortisone acetate, USP, kilo or more	gram.	1.90 - 2.00
Costus oil, bots.	oz.	6.00 - —
Cottonseed meal, 41%, bgs., Memphis	ton.	53.50 -54.00
Cottonseed oil, crude, tanks, South, East	lb.	.11 - —
tanks, Valley	lb.	.10⅝- —
tanks, Texas, Lubbock	lb.	.10⅜- —
tanks, Texas, Waco	lb.	.10½- —
Foots (soapstock) acid 95%, tanks, New York	lb.	.04 - —
Refd., salad, dms.	lb.	.16¼- .16½
tanks	lb.	.14½- —
Cottonseed oil acids, dist., dms	lb.	.16¾- .19¼
tanks	lb.	.14¼- —
Cottonseed pitch, raw, dms., works.	lb.	.03 - .03¼
tanks, same basis	lb.	.02¾- —
Coumarin, NF, cryst., dms.	lb.	3.60 - 3.70
Cramp bark, NF, bls.	lb.	.85 - .90
Cream of tartar (see Potassium bitartrate).		
Creosote carbonate, NF, bots. cbys.,	lb.	3.05 - 3.28
Creosote, coaltar, crude, tanks, works, frt. adjusted	gal.	.20 - —
crude, soln. 80%, tanks, works.	gal.	.192 - —
refd., dms., c.l., works	gal.	.42 - .44
dms., l.c.l., same basis	gal.	.53 - .55
tanks, same basis	gal	.33 - .35
Creosote oil (see Creosote coaltar).		
Creosote, beechwood, cbys., dms., f.o.b., works, dlvd. in Metropolitan area	lb.	1.72 - 1.77
Hardwood, NF, cbys., dms., same basis	lb.	1.42 - 1.47

for the

PAINT, VARNISH and LACQUER

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isopropyl acetate
isobutyl acetate
n-butyl acetate
2-ethylisohexyl acetate
isobutyl alcohol
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cellulose acetate butyrate

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dibutyl phthalate
di-isobutyl phthalate
plasticizer 84
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dioctyl phtholate (DOP)
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Creosote, pinewood, dms., incl., c.l., works lb. .0561- —
dms. incl., l.c.l., works lb. .0634- —
dms. incl., l.c.l., ex whse, New York lb. .0745- —
tanks, works lb. .0460- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld lb. .16½- —
non-ret. dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .145 - —
Cresol, USP, non-ret. dms., c.l., same basis lb. .18 - —
non-ret. dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
dms., l.c.l., works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
2.97%, 2°C., dms., c.l., frt. equald. lb. .22 - —
dms., l.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
o-Cresol 30.5°C., m.p. and over, ret. dms., c.l., frt. equald lb. .17 - —
ret. dms., l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
30°-30.49°C., m.p., dms., c.l., frt. equald lb. .16½- —
ret. dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .14½- —
o-Cresol, 29°-29.9° C., m.p., dms., c.l., frt. equald lb. .16 - —
ret. dms., l.c.l., same basis lb. .17 - —
tanks, same basis lb. .14 - —
o-Cresol, 25-28.9°C., m.p., dms., c.l., frt. equald lb. .15 - —
ret. dms., l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Cresol, 98%, dms., c.l., dlvd lb. .52 - —
dms., l.c.l., dlvd. lb. .53 - —
tanks, dlvd. lb. .49 - —
2,3-Cresotic acid, dms., ton lots, works lb. .70 - —
dms., smaller lots, works lb. .72 - —
p-Cresyl methyl ether, cns. lb. 1.80 - 2.05
Cresylic acid, coaltar dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt. equald gal. 1.35 - —
dms., l.c.l., same basis gal. 1.40 - —
tanks, same basis gal. 1.15 - —
Cresylic acid, coaltar, dom., meta-para content 25% or less, dms., c.l., t.l., same basis gal. 1.20 - —
dms., l.c.l., same basis gal. 1.25 - —
tanks, frt. equald. gal. 1.00 - —
Cresylic acid, coaltar, imp., meta-para content, 25% or less, f.o.b. works, frt. equald. to competitive points, 50 dms. or more gal. 1.03½- —
less than 50 dms., same basis. gal. 1.05 - 1.15
tanks, same basis gal. 1.00 - —
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .25 - —
Crotonic acid, dms., 200 lbs. or more, l.c.l., works lb. .51 - —
Cryolite, nat., indust., bgs., c.l., works 100 lbs.13.00 - —
bgs., l.c.l., works 100 lbs.14.25 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .25 - —
Cubeb berries, NF, bgs lb. .90 - —
Powd., cs. lb. .95 - —
Cubeb oil, cns lb.12.00 -15.00
Cumene, dms., c.l., works lb. .12 - —
dms., l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs. lb. .35 - —
Moroccan, bgs. lb. No prices.
Turkish, bgs. lb. No prices.
Cumin seed oil, bots., cns. lb. 7.50 -15.50
Cutch extract, 55% tannin, bgs., ex dock lb. .07½- —
Cyanamide, fertilizer mixing grade, 21% N, gran., bgs., Niagara Falls, Ont., contract ton.57.00 - —
pulv., 21% N, bgs., works, unit-ton. 2.85 - —
indust. grade, bgs., c.l., works.ton.75.00 - —
bgs., l.c.l., works ton.96.00 - —
indust. grade, 6-16 mesh, dms., c.l., works ton.120.00 - —
dms., l.c.l., works ton.140.00 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. E. of Rockies gal. 1.02 - —
dms., l.c.l., same basis gal. 1.10 - —
dms., c.l., dlvd. W. of Rockies. gal. .77 - —
dms., l.c.l., same basis gal. .85 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E lb. .28½- —
dms., l.c.l., works, same basis. lb. .29½- —
tanks, works, same basis lb. .26 - —
Cyclohexanone, tech., dms., c.l., works lb. .34½- —
dms., l.c.l., works lb. .37 - —
tanks, works lb. .31 - —
Cyclohexylamine, dms., c.l., works. lb. .49 - —
dms., l.c.l., works lb. .50 - —
tanks, works lb. .47 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl.48.00 - —
6-oz cyls., works cyl.12.00 - —
Cyclopropane, USP, hospitals, cyls., 40-gal. lots gal. .43 - —
cyls., 100-gal lots gal. .41 - —
cyls., 200-gal. lots gal. .40 - —
Cypress oil, bots. lb. 5.30 - —

D

2,4-D, tech., bgs., dms., c.l., works, frt. equald lb. .40 - —
bgs., dms., l.c.l., same basis lb. .45 - .49
2,4-D butyl ester, dms., c.l., works. lb. .43 - —
dms., l.c.l., same basis lb. .48 - .52
tanks, same basis lb. .42 - —
2,4-D isopropyl ester, dms., c.l., works lb. .43 - —
dms., l.c.l., works lb. .48 - .52
tanks, works lb. .42 - —
Dammar gum, Batavia, A/E, cs. lb. No stocks.
dust, bgs. lb. No stocks.
E, bgs. lb. No stocks.
East India, Batu, bold, bgs. lb. .13¾- .15
nubs and chips, bgs lb. .08½- .09½
black, bold, bgs lb. .14½- .16½
unscraped, bgs. lb. .13 - .14½
nubs and chips, bgs lb. .12¼- .13½
pale, chips, bgs lb. .14½- .16
nubs, bgs. lb. .17¾- .20
Siam, cs. lb. .31 - .34
Singapore, No. 1, bgs. lb. .37 - .43
No. 2, bgs lb. .31 - .34
No. 3, bgs lb. No stocks.
dust, bgs. lb. .17 - .19
seeds, bgs. lb. No stocks.
Dandelion root, bls lb. .28 - —

DDD, tech., flake, grd., fib. dms., c.l., works lb. .45 - .47
fib. dms., l.c.l., works lb. .46 - .48
DDT, flake or lump, bgs., c.l., dlvd lb. .22 - —
bgs., smaller lots, same basis. lb. .24 - —
fib. dms., c.l., same basis lb. .23 - —
fib. dms., smaller lots, same basis lb. .25 - —

Powdered DDT 1c. per pound higher.

1-Decanol, tech., dms., c.l., dlvd lb. .41 - —
dms., l.c.l., dlvd lb. .43 - —
tanks, dlvd. lb. .38½- —
Decyl alcohol, mixed isomers, dms., c.l., dlvd lb. .23½- —
dms., l.c.l., dlvd lb. .24½- —
tanks, dlvd. lb. .21 - —
Perfume grade, bots lb. 1.75 - 2.00
Decyl alcohol, normal (see 1-Decanol).
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton.51.00 - —
17% P, paper bgs., c.l., works. ton.60.00 - —
paper bgs., t.l., works ton.60.75 - —
18% P, paper bgs., c.l., t.l., works ton.69.12 - —
19% P, paper bgs., works, Houston, Tex., c.l., t.l ton.71.50 - —

Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices.

Degras, common, bbls lb. .10 - .12
Neutral, bbls. lb. .21 - .23
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .82
tanks, dlvd., same basis gal. .53½- —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.

Denatured alcohol, ethyl, proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .72 - —
dms., l.c.l., same basis gal. .77 - .83
tanks, same basis lb. .56 - —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.

Denatured alcohol, ethyl, SD1, dms., dlvd. E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .69 - —
dms., l.c.l., same basis gal. .74 - .80
tanks, same basis gal. .53 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 - —
SD23A, dms., l.c.l., dlvd. E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .80½
tanks, same basis gal. .53½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
SD-40, dms., c.l., dlvd. E. of Rockies gal. .72 - —
dms., l.c.l., same basis gal. .77 - .83
tanks, same basis gal. .56 - —

For anhyd. alcohol on above formulas, prices are 7c. per gal. higher.

West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.

d-Desoxyephedrine hydrochloride, dms. lb.15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 9.40 - —
paper bgs., l.c.l. 100 lbs. 9.55 - —
Dextrin, corn, canary dark, paper bgs., c.l. 100 lbs. 9.24 - —
paper bgs., l.c.l. 100 lbs. 9.39 - —
canary light, paper bgs., c.l., 100 lbs. 9.14 - —
paper bgs., l.c.l. 100 lbs. 9.29 - —
white, paper bgs., c.l. 100 lbs. 8.98 - —
paper bgs., l.c.l. 100 lbs. 9.13 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs. higher.
Dextrin, potato, imp., bgs lb. .10½- .11
Dextrose, hydrated, commercial, bgs., c.l., ex whse. 100 lbs. 7.60 - —
bgs., l.c.l., ex whse. 100 lbs. 7.70 - —
Anhydrous, commercial, bgs., c.l., ex whse. 100 lbs. 8.80 - —
bgs., l.c.l., ex whse. 100 lbs. 8.90 - —
Special anhydrous, al. foil lined fib. dms., 200-lb. dms. 100 lbs.14.70 - —
100-lb. dms. 100 lbs.15.20 - —
USP, dms. lb. .19¾- —
Diacetyl, flavor grade, bots lb. 4.30 - 4.55
Di-sec-amyl phenol, dms., c.l., works lb. .33 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Diacetone alcohol, acetone-free, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .13 - —
Tech., dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd lb. .16 - —
tanks, dlvd. lb. .12½- —
Diallylamine, dms., c.l., dlvd lb. .985 - —
dms., l.c.l., dlvd lb. .995 - —
tanks, dlvd. lb. .96 - —
o-Dianisidine, dry, tech., fib. dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .93 - —
dms., l.c.l., same basis lb. .94 - —
tanks, same basis lb. .91 - —
p-Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
Dibutyl fumarate, dms., c.l., t.l., frt. alld. lb. .33 - —
dms., l.c.l., l.t.l., frt. alld lb. .34 - —
tanks, frt. alld lb. .30½- —
Dibutyl maleate, dms., c.l., t.l., frt. alld lb. .33 - —
dms., l.c.l., l.t.l., dms, frt. alld lb. .34 - —
tanks, frt. alld lb. .30½- —

Dibutyl phthalate, dms., c.l., dvd. E. lb. .32½- —
dms., l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30 - —
Dibutyl sebacate, dms., c.l., works. lb. .67½- —
dms., l.c.l., works lb. .68½- —
tanks, works lb. .65½- —
Dibutyl tartrate, dms., works, frt. alld lb. .65½- —
Dibutylamine, dms., c.l., dlvd lb. .55½- —
dms., l.c.l., same basis lb. .56½- —
tanks, same basis lb. .53 - —
2,6-Di-tert-butyl-p-cresol, food grade, dms., t.l., c.l., dlvd lb. 1.20 - —
dms., l.t.l., dlvd lb. 1.24 - —
Feed grade, to vitamin premix distributors, dms., c.l., t.l. dlvd lb. 1.05 - —
dms., l.c.l., same basis lb. 1.07 - —
2,6-Di-tert-butyl-p-cresol, tech., dms., c.l., dlvd lb. .91 - —
dms., l.c.l., dlvd lb. .95 - —
tanks, dlvd. lb. .86 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .31 - .32
dms., l.c.l., dlvd lb. .32 - .33
tanks, dlvd. lb. .27½- —
Dicapryl sebacate, dms., c.l., works. lb. .63 - —
dms., l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
Dichlorophenoxyacetic acid (see 2,4-D).
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¾- —
dms., l.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11 - —
p-Dichlorobenzene, dms., c.l., f.o.b., works, frt. alld. E lb. .12 - —
dms., 2,000 lbs. or more same basis. lb. .14½- —
1,4-Dichlorobutane, dms., c.l. or t.l., works lb. .33½- —
dms., l.c.l., or l.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, dms., c.l., t.l., dlvd. E lb. .15½- —
dms., l.c.l., l.t.l., same basis lb. .16½- —
tanks, same basis lb. .13 - —
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
dms., l.c.l., works lb. .06 - —
tanks, works lb. .03 - —
Dicyclohexylamine, dms., c.l., works. lb. .54 - —
dms., l.c.l., works lb. .55 - —
tanks, works lb. .52 - —
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld lb. .59½- —
fib. dms., l.c.l., same basis lb. .60 - —
Didecyl phthalate, dms., c.l., works. lb. .34 - —
dms., l.c.l., same basis lb. .35 - —
tanks, same basis lb. .31½- —
Dieldrin, dms., dlvd lb. 1.85 - —
dms., l.c.l., dlvd lb. 1.90 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .27 - —
dms., l.c.l., same basis lb. .28 - —
tanks, same basis lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l., frt. alld lb. .26 - —
dms., l.c.l., frt. alld lb. .27 - —
tanks, frt. alld lb. .25 - —
Diethyl barbituric acid (see Barbital).
Diethylbenzene, dms., t.l., frt. alld. lb. .16½- —
dms., l.t.l., same basis lb. .18½- —
Diethyl carbonate, dms., c.l., f.o.b. works lb. .47½- —
dms., l.c.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Diethyl ethanolamines, dms., c.l., dlvd. lb. .69½- —
dms., l.c.l., dlvd lb. .70½- —
tanks, dlvd. lb. .67 - —
Diethyl oxalate, dms., c.l., f.o.b. works lb. .42½- —
dms., l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Diethyl phthalate, dms., c.l., dlvd. lb. .31½- —
dms., l.c.l., dlvd lb. .32½- —
tanks, dlvd. lb. .29 - —
Diethyl sulfate, dms., c.l., works lb. .19½- —
dms., l.c.l., works lb. .20¼- —
tanks, works lb. .17½- —
Diethyl toluamide, 90-95% meta isomer, dms., c.l., t.l., works lb. 2.30 - —
5-44 dm lots, works lb. 2.35 - —
1-4 dm lots, works lb. 2.40 - —
Diethylamine, dms., c.l., dlvd. E lb. .52 - —
dms., l.c.l., same basis lb. .53 - —
tanks, same basis lb. .49½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E lb. .17¾- —
dms., l.c.l., same basis lb. .18¾- —
tanks, same basis lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .51¼- —
dms., l.c.l., works lb. .52¼- —
Diethylene glycol monobutyl ether, c.l., dms., works lb. .30¾- —
dms., l.c.l., works lb. .31¾- —
tanks, dlvd. E lb. .28¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works lb. .30¾- —
dms., l.c.l., works lb. .31½- —
tanks, dlvd. E lb. .28¾- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd. lb. .22½- —
dms., l.c.l., dlvd lb. .23½- —
tanks, dlvd. E lb. .20 - —
Diethylene glycol monoethyl ether acetate, dms., c.l., works lb. .27¼- —
dms., l.c.l., works lb. .28 - —
tanks, dlvd. E lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l., dlvd lb. .21 - —
dms., l.c.l., dlvd lb. .22 - —
tanks, dlvd. E lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E lb. .45 - —
tanks, dlvd. E lb. .41½- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo.100.00 -147.50
bots., 1-kilo lot kilo.110.00 -152.50
Digitalis leaves, USP, dom., dms lb. 1.20 - —
Digitoxin, USP, bots. gram. 4.00 - 4.50
Diglycol laurate, dms lb. .32½- .34
Diglycol stearate, dms., ton lots lb. .26 - .28
Diglycolic acid, bgs., works lb. .14 - —
Dihexyl sebacate, dms., c.l., works. lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks, works lb. .64 - —
Dihydrazine sulfate, dms., works lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .07 - —
Dihydrostreptomycin sulfate, bulk. gram. .07 - —
1,2-Dihydroxy anthraquinone, dms., works lb. 2.75 - —
2,2-dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
tech., dms. lb. 1.09 - —

Di-isobutyl ketone, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd lb. .18 - —
tanks, dlvd. lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd. E lb. .31½- —
dms., l.c.l., same basis lb. .32½- —
tanks same basis lb. .29 - —
Di-isobutylene, dms., c.l., dlvd. E. lb. .10 - —
dms., l.c.l., dlvd. E lb. .11½- —
tanks, dlvd. E lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .30½- —
dms., l.c.l., same basis lb. .31½- —
tanks, same basis lb. .28 - —
Di-iso-octyl sebacate, dms., c.l., works lb. .62 - —
dms., l.c.l., works lb. .62½- .63
tanks, works lb. .60 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .23¼- —
dms., l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .20¾- —
Di-isopropylamine dms., c.l., dlvd. E of Rockies lb. .50½- —
dms., l.c.l., same basis lb. .51½- —
tanks, same basis lb. .48 - —
Dillseed, Indian, dewhiskered, bgs. lb. .12 - —
Dillseed oil, bots. lb. 2.60 - 5.00
Dillweed oil, dom., bots., dms lb. 3.10 - 4.10
Dimethyl anthranilate, cns. lb. 4.85 - 5.10
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd lb. 1.225 - —
dms., l.c.l., dlvd. lb. 1.235 - —
tanks, dlvd. lb. 1.20 - —
70% dms. c.l., dlvd., 100% basis, contained amines lb. .68½- —
dms., l.c.l., dlvd., 100% basis lb. .69½- —
tanks, dlvd., 100% basis lb. .66 - —
Dimethyl hydroquinone, dms. lb. 1.90 - 2.20
Dimethyl phthalate, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Dimethyl sebacate, dms., c.l., works. lb. 1.31 - —
dms., l.c.l., works lb. 1.30 - —
tanks, works lb. 1.28 - —
Dimethyl sulfate, 55-gal. ret. dms., c.l., works lb. .15 - —
55-gal. ret. dms., l.c.l., works lb. .16 - —
10-gal. ret. dms., l.c.l., works lb. .16½- —
Dimethyl sulfide, dms., c.l., works. lb. .16½- —
dms., l.c.l. works lb. .17 - —
tanks, works lb. .15 - —
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis lb. .38 - —
dms., l.c.l., frt. equald, 100% basis lb. .38½- —
tanks, frt. equald, 100% basis lb. .28 - —
40% soln., dms., c.l., frt. equald., 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, frt. equald, 100% basis. lb. .28 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .30 - —
dms., l.c.l. frt. alld. lb. .31 - —
tanks, frt. alld. lb. .28 - —
N,N-Dimethylformamide, dms., works. lb. .34 - .39
tanks, works lb. .32 - —
2,4-Dinitroaniline, dms., frt. alld lb. .80 - —
Dinitroaniline orange toner, CP, bbls., dlvd. E. of Rockies lb. 1.56 - —

Dinitroaniline orange toner prices 1c. higher W. of Rockies.

m-Dinitrobenzene, 85°C., dms. lb. .22 - —
89° C., dms. lb. .24 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E lb. .15¼- —
dms., l.c.l., frt. alld. E. lb. .15¾- —
tanks, frt. alld. E. lb. .15 - —
48°C., dms., c.l., frt. alld. E lb. .20¼- —
dms., l.c.l., frt. alld. E. lb. .20¾- —
tanks, frt. alld. E. lb. .20 - —
2,4-Dinitrophenol, bbls. lb. .37 - —
2,4-Dinitrotoluene, oily, dms. lb. .11 - —
Refd., 63°C., dms. lb. .23 - —
Dioctyl adipate, dms., c.l., works. lb. .42½- —
dms., l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .30½- —
dms., l.c.l., frt. alld. lb. .31½- —
tanks, frt. alld. lb. .28 - —
Dioctyl sebacate, dms., c.l., works. lb. .61¼- —
dms., l.c.l., works lb. .62¼- —
tanks, works. dlvd. lb. .59¼- —
1,4-Dioxane, dms., c.l. works lb. .30 - —
dms., l.c.l., works lb. .30¾- —
tanks, works lb. .28 - —
Dipentaerythritol, c.l., t.l., dlvd. E. lb. .38 - —
bgs., l.c.l., t.l., dlvd. E. lb. .39 - —
Dipentene, dest.-dist., dms., c.l., works. gal. .59 - —
dms., l.c.l., works gal. .63 - —
dms., l.c.l., ex whse. gal. .79 - —
tankcars, works gal. .42 - —
Dipentene, steam dist., dms., c.l., works, South gal. .72 - —
dms., l.c.l., dlvd. New York gal. .91 - —
tanks, works, South gal. .55 - —
Dip oil (see Tar acid oil)
Diphenyl, bgs., c.l., t.l., works lb. .17¼- —
bgs., l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
Diphenyl oxide, perfume grade, cns. lb. .85 - .95
Diphenyl phthalate dms., c.l., works. lb. .51¾- —
dms., l.c.l., works lb. .53¾- —
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald lb. .33 - —
bgs., l.c.l., same basis lb. .35 - —
Diphenylamine, refd., fused tanks, same basis lb. .30 - —

Refd., diphenylamine in dms. ½c. per lb. higher.

Diphenylguanidine bgs., dms., ton lots, frt. alld lb. .49 - —
bgs., smaller lots, frt. alld. lb. .50 - —
Diphenylhydantoin-sodium, USP, dms. lb. 5.00 - 8.00
Dipropylene glycol, dms., c.l., frt. alld lb. .17¾- —
dms., l.c.l., frt. alld. lb. .18¾- —
tanks, frt. alld. lb. .15¼- —
Dipropylene glycol methyl ether, dms., c.l., dlvd. E lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works lb. 1.45 - —
Di-o-tolylguanidine, dms., ton lots, frt. alld. lb. .69 - —
dms., smaller lots, frt. alld. lb. .70 - —
Divi-divi, 45% tannin, bgs., bls., c.l., US ports, ex dock ton.76.00 Nom.
Divinylbenzene, 20-25%, dms., c.l., works, frt. equald lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
80-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis lb. 1.05 - —
Dodecylbenzene, dms., c.l., f.o.b., works, frt. equald lb. .14 - —
dms., l.c.l., same basis lb. .15 - —
tanks, same basis lb. .117 - —

Sterwin Chemicals stocks the most complete line of vitamins . . .

immediate delivery of any quantity.

. . . most complete line . . .

VITAMIN A—PALMITATE & ACETATE
VITAMIN A POWDER
(Available also with Vitamin D_2 Added)

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THIAMINE HYDROCHLORIDE
(Regular and Ampule Grades)
THIAMINE MONONITRATE

•

RIBOFLAVIN

•

PYRIDOXINE HYDROCHLORIDE

•

VITAMIN B_{12}
CYANOCOBALAMIN, U.S.P.
0.1% TRITURATION OF CYANOCOBALAMIN
COBALAMIN N.F. ORAL GRADE
COBALAMIN N.F. SOLUBLE GRADE
SOLUTION OF COBALAMIN CONCENTRATE

ASCORBIC ACID
(Available in Six Granulations, Also Ampule Forms)

•

SODIUM ASCORBATE

•

D CALCIUM PANTOTHENATE
DL CALCIUM PANTOTHENATE

•

ALPHA TOCOPHEROL
ALPHA TOCOPHEROL ACETATE

•

NIACIN
NIACINAMIDE

•

VITAMIN D_2 CRYSTALLINE
(Calciferol)
VITAMIN D_3 CRYSTALLINE
(Both Available in Oil Solutions)
VITAMIN D_2 CONCENTRATE, DRY

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from warehouses in:

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- PORTLAND, ORE.
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- ST. LOUIS

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Subsidiary of Sterling Drug Inc.
1450 Broadway, New York 18, N. Y.
LAckawanna 4-6400

Dodecylphenol, c.l., frt. alld. ....lb. .22 • —
dms., l.c.l., same basis.....lb. .23 • —
tanks, same basis.....lb. .19½- —

Dodecylphenol prices on shipments to Western States are 2c. per pound higher.

Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, divd:
Blue, FD&C, No. 1.....lb.15.65 -17.60
No. 2.....lb.15.65 -17.60
Green, FD&C, No 1.....lb.15.65 -17.60
No. 2.....lb.19.60 -22.85
No. 3.....lb.31.30 -35.90
Red, FD&C, No. 1, cns. .....lb. 5.90 - 7.85
No. 2.....lb. 3.30 - 4.10
No. 3.....lb.19.60 -22.85
No. 4.....lb. 5.55 - 7.50
Violet, FD&C, No. 1, cns. .....lb.15.65 -17.60
Yellow, FD&C, No. 1, cns. .....lb. 9.15 -11.05
No. 5.....lb. 3.30 - 4.10
No. 6.....lb. 3.30 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, divd:—
Black, D&C, No. 1.....lb.10.50 -10.95
Brown, D&C, No. 1.....lb.15.65 -16.10
Green, D&C, No. 5.....lb.15.65 -16.10
No. 6.....lb.15.65 -16.10
No. 7.....lb.14.35 -14.80
Orange, D&C, No. 3.....lb.10.50 -10.95
No. 4.....lb.19.60 -20.65
No. 5.....lb. 3.80 - 4.25

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, divd:—
Red, D&C, No. 17.....lb.10.50 -10.95
No. 18.....lb.23.60 -24.00
No. 19.....lb.15.00 -15.45
No. 21.....lb. 3.90 - 4.35
No. 22.....lb.10.50 -10.95
No. 28.....lb.24.15 -24.65
No. 33.....lb.17.00 -17.45
Violet, D&C, No. 2.....lb.15.65 -16.10
Yellow, D&C, No. 7.....lb.10.50 -10.95
No. 8.....lb.10.50 -10.95
No. 10.....lb.13.05 -13.50
No. 11.....lb.13.05 -13.50

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots divd:—
Blue, Ext., D&C, No. 1, cns....lb.15.65 -16.10
Green, Ext., D&C, No. 1, cns....lb.15.65 -16.10
Red, Ext., D&C, No. 1, cns ....lb.13.05 -13.50
Yellow, Ext., D&C, No. 1, cns..lb.10.50 -10.95

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour index scale or prototype), contract, divd. No.
20 Chrysoldine Y dustless....lb. .89 • —
27 Fast light, orange 2G.....lb. 1.29 • —
31 Phloxine 2G.....lb. 1.05 • —
36 Yellow 2G.....lb. 1.18 • —
40 Orange R, extra, conc....lb. 1.52 • —
57 Fuchsine 6B.....lb. 1.55 • —
79 Scarlet 2R.....lb. 1.16 • —
151 Orange AD.....lb. .79 • —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype) contract, divd. No.
161 Orange .....lb. .94 • —
176 Fast Red A, conc.....lb. 1.53 • —
179 Rubine XX, conc.....lb. 1.47 • —
180 Blue F4B.....lb. 1.31 • —
185 Brilliant scarlet 3RN, conc. lb. 1.20 • —
202 Chrome blue black R, conc. lb. 1.07 • —
203 Chrome black T.....lb. .92 • —
206 Fast blue SR.....lb. 1.30 • —
234 Brown Y.....lb. 1.27 • —
246 Blue black, extra, conc....lb. 1.37 • —
275 Milling red 3R, conc.....lb. 1.91 • —
289 Navy blue 3R, conc.....lb. 1.70 • —
299 Black F, conc.....lb. 2.19 • —
304 Neutral black 2B, conc..lb. 2.61 • —
326 Fast scarlet 4BNC.....lb. 2.12 • —
332 Brown, RX, conc.....lb. 1.35 • —
365 Brilliant yellow, conc....lb. 3.11 • —
382 Scarlet B.....lb. 2.60 • —
401 Diazo black BHD.....lb. .93 • —
406 Blue 2B, extra conc.....lb. 1.53 • —
419 Red FC.....lb. 1.45 • —
420 Brown M.....lb. 1.40 • —
442 Red 4BX, conc.....lb. 1.69 • —
518 Diamine sky blue FF, extra, conc..lb. 1.95 • —
561 Brown B.....lb. 2.89 • —
581 Black EB, 200%.....lb. 1.33 • —
593 Green BY, conc.....lb. 1.02 • —
596 Yellow brown K, extra....lb. 1.26 • —
620 Yellow 2G.....lb. 1.31 • —
639 Fast Yellow GG.....lb. 2.32 • —
640 Yellow XX.....lb. 2.30 • —
655 Yellow OX.....lb. 2.45 • —
657 Malachite green V, crystals.lb. 2.73 • —
662 Brilliant green G.....lb. 2.63 • —
667 Milling green 6B, conc....lb. 4.78 • —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract divd. No.
671 Blue EG.....lb. 1.85 • —
681 Crystal violet powder.....lb. 2.15 • —
698 Violet 6BN powder.....lb. 2.25 • —
720 Brilliant blue BBG.....lb. 2.44 • —
729 Blue B, extra conc.....lb. 3.61 • —
749 Red BX.....lb. 4.76 • —
800 Chinoline yellow ZSS.....lb. 2.67 • —
814 Yellow NN, conc.....lb. 3.67 • —
841 Safranine GF, extra, conc..lb. 4.11 • —
860 Induline base ZM.....lb. 1.07 • —
865 Nigrosine J.....lb. 4.76 • —
922 Blue GXX.....lb. 2.22 • —
978 Black GXCF, conc.....lb. .38 • —
1034 Alizarin red SC.....lb. 3.31 • —
1078 Alizarin syanine green base Z...lb. 6.13 • —
1085 Alizarin blue black B ...lb. 3.02 • —
1096 Golden orange GFD, single paste..lb. 2.58 • —
1099 Dark blue BO, single paste lb. 2.28 • —
1101 Jade green N supra, double paste..lb. 1.55 • —
1106 Blue RS double paste ...lb. 3.85 • —
1113 Blue BLFD double paste .lb. 2.92 • —
1151 Brown R single paste ..lb. 2.29 • —
1171 Indigo synthetic 20% paste lb. .31 • —
1217 Orange RD double powder. lb. 4.60 • —
p-4 Brown PG.....lb. 3.00 • —
p-24 Gray L.....lb. 2.08 • —
p-80 Diazo brilliant scarlet ROAD lb. 3.62 • —
p-202 Diazo black VJ conc.....lb. 2.48 • —
p-244 Brilliant scarlet BN.....lb. 1.70 • —
p-313 Naphthol SWF.....lb. 1.76 • —

Dyes coaltar oil-soluble, 100-lb drums divd. No.
24 Oil orange Z-7078.....lb. 1.06 • —
73 Oil Scarlet BL.....lb. 1.70 • —
1073 Oil violet ZIRS.....lb. 6.81 • —
1078 Alizarin green CG.....lb. 3.53 • —
1080 Oil violet special Z.....lb. 6.81 • —
Oil black ZBC.....lb. 4.46 • —
Oil black ZBD.....lb. 3.03 • —
Oil black ZHH.....lb. 4.61 • —
Oil black ZMM.....lb. 6.52 • —
Oil blue ZN.....lb. 8.02 • —
Oil blue ZV.....lb. 4.95 • —
Oil orange ZMG.....lb. 1.32 • —
Oil red N-1700.....lb. 1.76 • —
Oil yellow ZG conc.....lb. 6.33 • —

Dyes, coaltar spirit soluble 100 lb. dms. divd. No.
p-517 Spirit yellow 2R conc....lb. 4.62 • —
p-520 Spirit orange ZR conc....lb. 5.87 • —
Spirit black RB.....lb. 3.54 • —
Spirit brown ZG.....lb. 5.30 • —
Spirit red B conc.....lb. 6.41 • —

E

Echinacea root, bls.....lb. 1.10 • —
Egg albumin (see Albumin).
Egg yolk, dried, dom., bbls. .....lb. 1.20 - 1.22
tanners, bbls. .....lb. .06 - .06½
Elm bark, grinding bls. .....lb. .30 - .32
Powd., bbls., bxs. .....lb. .45 • —
Select, bundles.....lb. .75 • —
Emetine hydrochloride, USP, bots. oz.42.00 -48.25
Endrin, tech., dms., t.l., divd.....lb. 3.44 • —
Eosin red toner, bbls., works.....lb. 1.85 • —
Ephedrine, syn., USP, anhyd., bots. 100-oz. lots oz. .98 - 1.00
hydrous bots. 100-oz. lots oz. .92 • —
Ephedrine hydrochloride, NF, dms., oz. .60 • .65
Ephedrine sulfate, USP, cryst., dms., oz. .60 • .80
Powd., dms.....oz. .60 • .80
Epichlorohydrin, dms., c.l., divd..lb. .35½- —
dms., l.c.l., divd.....lb. .36½- —
tanks, divd.....lb. .33 • —
l-Epinephrine base syn. USP bots., 100 gram lots..gram. .58 • —
Epsom salt (see Magnesium sulfate).
Erigeron oil, cns. .....lb.11.00 • —
Ergot, NF dms., tin-lined.....lb. 1.60 • —
Eserine salicylate, bots.....oz.72.50 -84.00
Eserine sulfate, bots. .....oz.87.75 • —
l-Epinephrine base, syn., USP bots.,
Ester gum, gum-rosin type, dms., c.l., divd., Ill., Md., Ky., E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. .... lb. .17 • —
Ester gum wood-rosin type, dms., c.l., same basis..lb. .17 • —
Ether (see specific product).
Ethyl acetate, nat., ferment, 85-88% dms., c.l., frt. alld..lb. .15 • —
dms., l.c.l., divd. .....lb. .16 • —
tanks, divd. .....lb. .12¼- —
93-96%, dms., c.l., divd. ...lb. .15¼- —
dms., l.c.l., divd. .....lb. .16¼- —
tanks, divd. .....lb. .12¾- —
99%, dms., c.l., divd. ....lb. .15½- —
dms., l.c.l., divd. .....lb. .16½- —
tanks, divd. .....lb. .13 • —
Syn., 85-88%, dms., c.l., divd..lb. .15 • —
dms., l.c.l., divd. .....lb. .16 • —
tanks, divd. .....lb. .12¼- —
93-96%, dms., c.l., divd. ..lb. .15¼- —
dms., l.c.l., divd. .....lb. .16¼- —
tanks, divd. .....lb. .12¾- —
99%, dms., c.l., divd. .....lb. .15½- —
dms., l.c.l., divd. .....lb. .16½- —
tanks, divd. .....lb. .13 • —
Ethyl aceteacetate, dms., c.l., divd. lb. .58½- —
dms., l.c.l., divd. .....lb. .59½- —
tanks, divd. .....lb. .56 • —
Ethyl acrylate, dms., c.l., t.l., divd. lb. .36 • —
dms., l.t.l., divd. .....lb. .37 • —
tanks, divd. .....lb. .34 • —
Ethyl alcohol, 190 pf., USP, tax paid dms., c.l., divd. E. of Rockies..gal.20.63 • —
dms., l.c.l., same basis..gal.20.68 -20.74
tanks, same basis.....gal.20.47 • —
Ethyl alcohol, 190 pf., USP, tax-free, dms., c.l., divd. E. of Rockies..gal. .68 • —
dms., l.c.l., same basis..gal. .73 - .79
tanks, same basis.....gal. .52 • —
Ethyl alcohol, absolute, 200 pf. tax paid, dms., divd. E. of Rockies..gal.21.75 • —
dms., l.c.l., same basis..gal.21.80 -21.86
tanks, same basis.....gal.21.59 • —
Ethyl alcohol, denatured (see Denatured alcohol, ethyl).
Ethyl aminobenzoate, USP (see Benzocaine).
Ethyl amyl ketone, dms., c.l., divd. lb. .20 • —
dms., l.c.l., same basis.....lb. .21 • —
tanks, same basis.....lb. .17½- —
Ethyl benzoate, bots. .....lb. .90 • —
Ethyl bromide tech., 95%, dms., c.l., frt. alld.E..lb. .43 • —
dms., l.c.l., frt. alld. E....lb. .45 • —
tanks, frt. alld, E. .....lb. .41 • —
2-Ethyl butyl alcohol, dms., c.l., works..lb. .30 • —
dms., l.c.l., works.....lb. .30¾- —
tanks, works .....lb. .28 • —
Ethyl butyl ketone, dms., c.l., t.l., works lb. .36 • —
dms., l.c.l., l.t.l., works.....lb. .36¾- —
tanks, works .....lb. .34 • —
Ethyl butyrate, works.....lb. .90 - 1.00

Mathieson Organic Chemicals

Ethylene Oxide
Ethylene Glycol
Diethylene Glycol
Triethylene Glycol
Polyethylene Glycols
(Poly-G's)
Glycol Ether Solvents
(Poly-Solv's)
Ethanolamines
Ethylene Diamine
Polyamines
Surfactants
(Poly-Tergents)
Ethylene Dichloride
Dichloroethylether

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The consistently uniform high quality of Mathieson organics stems from a rigid system of quality controls...from basic raw materials right through to finished product.

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OLIN MATHIESON CHEMICAL CORPORATION
ORGANIC CHEMICALS
OLIN MATHIESON CHEMICAL CORPORATION
740 FIFTH AVENUE, NEW YORK 22, NEW YORK

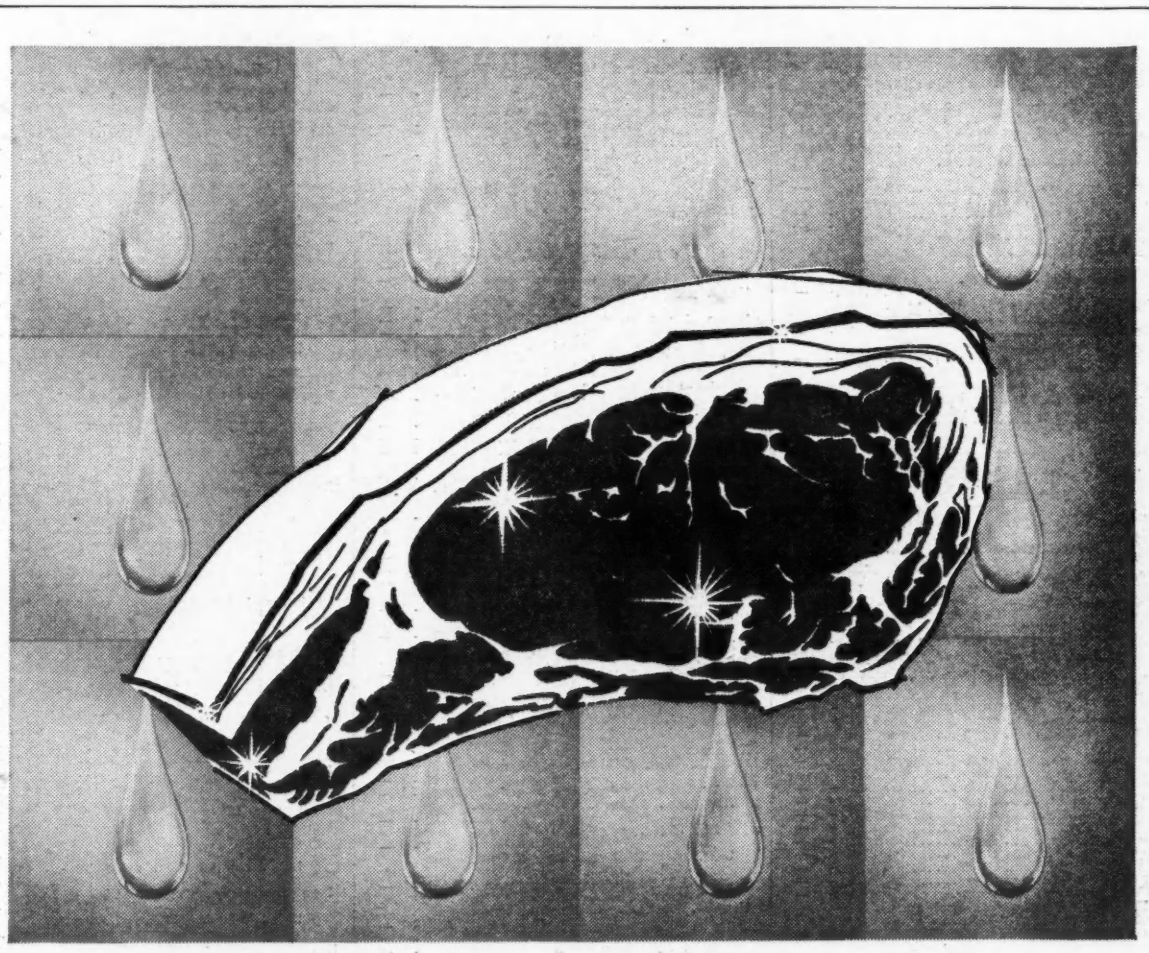
Ethyl carbamate (see Urethane).
Ethyl cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .73 - —
bgs., smaller lots, frt. alld. E.lb. .75 - —
Ethyl cellulose, vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E. lb. .68 - —
bgs., smaller lots, frt. alld. E. lb. .70 - —
Ethyl chloride, tech., cyls., works. lb. .20 - .22
dms., works .....lb. .18 - .20
tanks, works .....lb. .10 - —
Ethyl cinnamate, cns. .....lb. 3.35 - 3.50
Ethyl ethanolamines, mixed, dms., c.l., dlvd. E lb. .43½- —
dms., l.c.l., dlvd. E .....lb. .44½- —
tanks, dlvd. E. .....lb. .41½- —
Ethyl ether, absolute, ACS dms lb. .27 - —
Anesthesia, USP, dealers, 1-lb. cns .lb. 1.01 - —
½-lb. cns. .....lb. 1.09 - —
¼-lb. cns. .....lb. 1.21 - —
Ethyl ether, indust. dms., c.l., dlvd. lb. .13½- —
dms., l.c.l., dlvd. E. .....lb. .14½- —
tanks, dlvd. E. .....lb. .11 - —
2-Ethyl hexoic acid dms., c.l., t.l., dlvd. E lb. .37 - —
dms., l.c.l., l.t.l., dlvd. E. .....lb. .38 - —
tanks, dlvd. E .....lb. .34½- —
(2-Ethyl hexoic acid, 1c. higher W. of Rockies).
2-Ethylyhexyl acrylate, c.l. or t.l., straight or mixed frt. alld. E .lb. .47½- —
dms., l.t.l., same basis.....lb. .48½- —
tanks, same basis .....lb. .45 - —
Prices of 2-ethylhexyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
2-Ethylhexyl alcohol dms. c.l. dlvd. lb. .23¾- —
dms., l.c.l., dlvd. .....lb. .24¾- —
tanks, dlvd. .....lb. .21¼- —
Ethyl iodide, cbys., works.....lb. 3.30 - —
Ethyl methacrylate, dms., c.l., frt. equald. .lb. .52 - —
dms., l.t.l. frt. equald. .....lb. .52½- —
tanks, frt. equald. .....lb. .50 - —
Ethyl morphine hydrochloride, USP, bots. .oz.11.85 - —
Ethyl nitrite (see Nitrous ether).
Ethyl oenanthate, dms. .....lb. 1.20 - 1.50
Ethyl oxalate (see Diethyl oxalate).
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
Ethyl silicate, 40% available SiO, dms., c.l., dlvd. .lb. .44½- —
dms., l.c.l., dlvd. .....lb. .45½- —
tanks, dlvd. .....lb. .42 - —
N-Ethyl-a-naphthylamine, dms., works. lb. 1.02 - —
N-Ethyl-o-toluidide, bbls. .....lb. .88 - —
Ethylamine (see Mono-, Di-, or Tri-).
N-Ethylaniline, dms., c.l., frt. alld. lb. .57 - —
dms., l.c.l., frt. alld. .....lb. .58 - —
tanks, frt. alld. .....lb. .55 - —
Ethylbenzene, 99% dms. c.l. or t.l., frt. equald. .lb. .15 - —
dms., l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .12½- —
2-Ethylbutyl alcohol, dms., c.l., works. .lb. .30 - —
dms., l.c.l., works.....lb. .30¾- —
Ethylene, contract, ref'y. gate....lb. .0475- .0525
Ethylene dibromide dms. c.l., frt. equald. .lb. .30½- —
dms., l.c.l. frt. equald. .....lb. .31½- —
tanks, frt. equald. .....lb. .28½- —
Ethylene dichloride, dms., c.l., dlvd. lb. .11½- —
dms., l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .09 - —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Ethylene glycol, indust., dms., c.l., dlvd. E. .lb. .16 - —
dms., l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .13½- —
Ethylene glycol monobutyl ether, dms., c.l., dlvd. E. .lb. .22 - —
dms., l.c.l., dlvd. E. .....lb. .23 - —
tanks, dlvd E. .....lb. .19½- —
Ethylene glycol monoethyl ether, dms. c.l. dlvd. E .lb .21 - —
dms. l.c.l., dlvd. E. .....lb. .22 - —
tanks, dlvd. E. .....lb. .18½- —
Ethylene glycol monoethyl ether, acetate dms. c.l. dlvd. E. .lb. .19½- —
dms., l.c.l., dlvd. E. .....lb. .20½- —
tanks, dlvd E. .....lb. .17 - —
Ethylene glycol monomethyl ether, dms., c.l., dlvd. E. .lb. .21 - —
dms., l.c.l., dlvd. E. .....lb. .22 - —
tanks, dlvd E. .....lb. .18½- —
Ethylene glycol monomethyl ether, acetate dms. c.l. dlvd. E. .lb. .29 - —
dms., l.c.l., dlvd. E. .....lb. .29¾- —
tanks, dlvd. E. .....lb. .27 - —
Ethylene glycol monostearate, triple pressed dms. .lb. .33 - .35
Ethylene oxide, dms. c.l., dlvd. E. lb. .21½- —
dms., l.c.l., dlvd. E. .....lb. .24½- —
tanks, dlvd. E. .....lb. .15½- —
Ethylene trichloride (see Trichloroethylene).
Ethylenediamine, 85-88%, dms., c.l., dlvd. E., 100% basis .lb. .42 - —
dms. l.c.l. dlvd. E. 100% basis. lb. .43 - —
tanks, dlvd. E. 100% basis .lb. .40 - —
Ethylvanillin, 100-lb. fib. dms., 500-lb. lots and over .lb. 6.75 - —
Eucalyptol, USP, cns., dms. .....lb. 1.10 - 1.40
Eucalyptus oil, NF, rectified, 70-75%, dms. .lb. .61 - 1.05
NF, rectified, 80-85%, dms. ....lb. .68 - 1.20
Eugenol, USP, dms.....lb. 1.60 - 2.25
Euphorbia herb, bls. .....lb. .15 - .17

F

F acid, crude, paste, bbls., works. lb. 2.10 - —
Feldspar, 140-200 mesh, bulk, c.l., works .ton.19.50 - —
Feldspar in bags $3 per ton. higher.
Fennel oil, sweet USP, cns. .....lb. 2.75 - 2.95
Fennel seed, Argentine, bgs.....lb. .14 - —
French, light, bgs.....lb. .21 - —
Indian, light, bgs.....lb. .25 - —
Rumanian, bgs. .....lb. .15 - —
Yugoslav, light, bgs.....lb. .22½- —
Fenugreek seed, Moroccan, bgs .lb. .07½- —
Ferric acetate, soln., USP IX, cbys. lb. .16 - —
USP IX, cbys. .....lb. .17 - —
Ferric chloride, anhyd., tech., dms., c.l., works .100 lbs. 7.50 - —
dms. l.c.l., works .....100 lbs. 8.50 - —
Indust., cryst., bbls., c.l., works. 100 lbs. 5.25 - 6.75
bbls., l.c.l., works.....100 lbs. 5.75 - 7.25
Ferric chloride, 42° Be. photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald. 100% basis .100 lbs. 4.00 - —
USP, cryst. dms., works.....lb. .07½- .09
Ferric citrate, gran., dms. .....lb. .86 - —
Ferric hypophosphite NF dms .lb. 3.45 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld .lb. .28¼- —
Ferric oxalate, gran., dms. .....lb. .89 - .91
Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble, gran. pearls, cs .lb. .72 - .75
Ferric pyrophosphate, NF, VII, soluble, gran., pearls, dms. lb. .79 - —
Ferric resinate 6¾% Fe., dms. ton. lots, frt. alld .lb. .36½- —
Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld. .....lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l. works .ton.35.25 - —
bgs., l.c.l., works.....ton.36.25 -42.25
bulk, c.l., works .....ton.33.25 - —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms lb. .65 - .68
Green, pearls, USP XII, gran., dms lb. .66 - .69
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms lb. .32½- .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29½
Ferrous gluconate, USP, dms. ... lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works ton.34.50 - —
bgs., l.c.l., dlvd. Metropolitan area, 100 lbs. 3.35 - 4.25
bbls., c.l., works.....ton.40.00 - —
bulk, c.l., works.....ton.27.00 - —
USP cryst., bbls., dms. .....lb. .09½- .10

Fir balsam, Canada, bbls. .....gal.32.00 -35.00
Oregon, bbls. .....gal. 3.75 - 4.00
Fir oil, Canada, cns. .....lb. 2.85 - 4.00
Fish oil, refd., alkali, dms.....lb. .1350- .1400
Kettle-bodied, dms. .....lb. .1580- .1630
Light-pressed, dms. .....lb. .1200- .1250
tanks .....lb. .1050- —
Fishliver oil, high potency, 100,000 A units per gram, dms. 1,000,000 units. .16 - —
200,000 A units per gram., dms. 1,000,000 units. .17½- —
500,000 A units per gram., dms., 1,000,000 units. .18 - —
Fishmeal, dom., menhaden 60% protein grd., bgs., Chesapeake Bay area .ton.145.00 - —
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Chesapeake Bay area .ton.141.00 - —
Fleaseed (see Psyllium seed).
Folic acid, USP, bots., fib., dms., kilo or more gram. .44 - —
10% feed grade, fib. dms., 3 kilos or more kilo.44.00 - —
Formaldehyde, 37%, (inhibited 7 to 8% methanol), USP, dms., c.l., dlvd .lb. .0645- —
tanks, dlvd. .....lb. .0380- —
Formaldehyde, 37%, (inhibited, 12 to 15% methanol), USP, dms., c.l., dlvd .lb. .0670- —
tanks, dlvd. .....lb. .0405- —
Methanol-free (uninhibited), tanks, dlvd .lb. .0350- —

Formic acid, 85%, cbys., c.l., works. lb. .1570- —
cbys., l.c.l., works .....lb. .1620- .1720
90%, cbys., c.l., works.....lb. .1625- —
cbys., l.c.l., works .....lb. .1675- .1775
Fringetree bark, bls. .....lb. .60 - .61
Fuller's earth, bgs., c.l., Ill. mines, ton.19.00 - —
Calcined, bgs., c.l., same basis. ton.20.00 -21.75
Insecticide grade, dried, powd., bgs., c.l., Ga. or Fla. mines ton.17.50 - —
Oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton.16.30 -17.00
200-mesh, bgs., c.l., same basis. ton.17.50 -18.00
Spent, bgs., c.l., ship't. point ton. 4.50 - 5.00
Fumaric acid, tech., bgs., dms., c.l., frt. alld. E lb. .27¼- —
bgs., l.c.l., same basis .....lb. .28¼- —
Prices of fumaric acid 1½c. per lb. higher west of Denver.
Furfural, dms., c.l., works .....lb. .13 - —
dms., l.c.l., works .....lb. .14 - —
tanks, dlvd. E. .....lb. .12 - —
tanks, dlvd. W. .....lb. .13 - —
dms., c.l., Memphis, Tenn....lb. .20 - —
Furfuryl alcohol, cns., works ....lb. .29 - —
dms., l.c.l., Memphis, Tenn....lb. .20 - —
Furfuryl alcohol, dms., c.l., Newark, N. J. .lb. .21½- —
dms., l.c.l., Newark, N. J. .....lb. .22½- —
tanks, Memphis, Tenn. .....lb. .164 - —
Fusel oil, refd., dms., c.l., dlvd .lb. .18 - —
dms., l.c.l., dlvd. .....lb. .19 - —
tanks, dlvd. .....lb. .15½- —



A "liquid dip" for wrapping meat

A more attractive way of packaging frozen meat is now being tested. It's an all-around airtight wrap that seals in fresh red color that's ordinarily lost after freezing. The process is simple: An initial immersion in an ethyl cellulose base hot melt followed by a liquid dip in the insulating coating of which one of the ingredients is glycerine. The glycerine acts as a plasticizer and humectant. It helps keep the package clear and prevent slip.

Another approach is described in a recent Belgian patent. This time a dip of hot 60-80% Glycerine solution heat-seals polyethylene into an airtight film around the meat.

Ideas like these can be extended throughout the whole world of packaging. They're examples of the many things to come with Glycerine. And more, the unique balance of properties that won such wide acceptance for Glycerine in the past will surely continue to open new doors to chemical progress.

We'd like to send you our 18-page booklet: "Glycerine Properties and Uses." Address your request to the Glycerine Producers' Association.

Properties
HYGROSCOPICITY • STABILITY
SOLVENT POWER • VISCOSITY
NONVOLATILITY • NONTOXICITY
TASTE • COMBINING WEIGHT

ADVANTAGES THAT COME WITH . . .
Glycerine

Applications
HUMECTANT • CARRIER
SOLVENT • LUBRICANT
SOFTENER • EMOLLIENT
ANTI-FREEZE • ALKYD BASE

GLYCERINE PRODUCERS' ASSOCIATION • 295 MADISON AVENUE, NEW YORK 17, N. Y.

Fustic extract cryst. No. 1, bbls., l.c.l. lb. .47½- —
No. 2, bbls., l.c.l. lb. .45½- —
No. 3, bbls., l.c.l. lb. .43½- —
Liq., No. 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls., l.c.l. lb. .21½- —
No. 3, bbls., l.c.l. lb. .19 - —
Solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, bbls., frt. alld., 100% basis lb. .73 - —
Gallic acid, NF VII, bbls., 1,000-lb. lots lb. 2.00 - —
bbls., smaller lots lb. 2.02 - 2.22
Gallic acid, tech., bbls., 1,000-lb. lots lb. 1.78 - —
bbls., smaller lots lb. 1.80 - 2.00
Gamma acid, dry grd., bbls., frt. alld lb. 1.50 - —
Paste, bbls., frt. alld. lb. 1.45 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. oz. 4.75 - 6.05
Imp., bots. oz. 4.50 - 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible, pure pork skin),
75 AOAC test, bbls., c.l. lb. .55 - —
150 AOAC test, bbls., c.l. lb. .67 - —
200 AOAC test, bbls., c.l. lb. .74 - —
225 AOAC test, bbls., c.l. lb. .77 - —
275 AOAC test, bbls., c.l. lb. .84 - —
Gelsemium root, bls. lb. .26 - —
Gentian root, bls. lb. .23 - —
Grd., bbls., bxs. lb. .27 - —
Powd., bbls., bxs. lb. .28 - —
Geraniol, extra, cns., dms. lb 2.20 - 3.00
Standard, cns., dms lb. 2.05 - 3.40
soap grade, dms lb. 1.10 - 1.75
Geranium oil, Algerian, cns. lb.16.50 -18.50
Bourbon, cns. lb.18.00 -22.75
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns. lb. 2.00 - 2.70
Ginger oil, dist., bots. lb.10.50 -16.00
Ginger oleoresin, NF, from African root, bots lb. 5.00 - 5.60
NF, from Jamaican root, botts. lb. 8.75 -10.25
Ginger root, Cochin, bgs. lb. .14½- —
Jamaican, No. 3, bgs. lb. .34 - —
Nigerian, split, bgs. lb. .13 - —
Sierra Leone, bgs. lb. .14 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50%, dms., frt. alld lb. .18 - —
dms. l.c.l., frt. alld. lb. .20½- —
tanks, frt. alld. lb. .13½- —
Glue, bone, extracted, dry bone, 80 jellygrams, bgs. c.l., dlvd. lb. .15 - —
131 jellygrams, bgs., c.l., same basis lb. .17 - —
134 jellygrams, bgs., c.l., same basis lb. .17½- —
191 jellygrams, bgs., c.l., same basis lb. .19 - —
223 jellygrams, bgs., c.l., same basis lb. .22 - —
Glue, bone, green, dry bone, 40 jellygrams, bgs., c.l., same basis lb. .16 - —
45 jellygrams, bgs., c.l., same basis lb. .16 - —
80 jellygrams, bgs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
135 jellygrams, bgs., c.l., same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, l.c.l., prices 1c higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .16 - —
95-121, bgs., c.l., dlvd lb. .17 - —
122-149, bgs., c.l., dlvd lb. .18½- —
150-177, bgs., c.l., dlvd lb. .21 - —
178-206, bgs., c.l., dlvd lb. .23½- —
207-236, bgs., c.l., dlvd lb. .26 - —
237-266, bgs., c.l., dlvd lb. .28 - —
267-298, bgs., c.l., dlvd lb. .30 - —
299-330, bgs., c.l., dlvd lb. .32 - —
331-362, bgs., c.l., dlvd lb. .34 - —
363-394, bgs., c.l., dlvd lb. .36 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .40 - —
461-494, bgs., c.l., dlvd lb. .42 - —
495-529, bgs., c.l., dlvd lb. .44 - —
Hide glue, l.c.l., prices 2c higher.
1-Glutamic acid, 99½%, fib. dms., 100-lb lots, frt. alld lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.85 - —
1-Glutamine, bots., 100 gm. lots. gram. .45 - —
Glycerine, dom., nat., crude, saponification, 88%, dlvd. E., tanks lb. .15¼- —
nat., crude, soaplye, 80%, dlvd. E., tanks lb. .16½- .17
Imp., nat., crude, soaplye, 80%, c.i.f. lb. .17 - —
Glycerine, nat., refd., USP, CP, 96% dms., c.l., dlvd lb. .29½- —
dms., l.c.l., dlvd lb. .29½- —
tanks, dlvd. lb. .27½- —
USP, 96%, dms., c.l., dlvd lb. .28½- —
dms., l.c.l., dlvd lb. .29 - —
tanks, dlvd. lb. .26¾- —
Glycerine, high gravity, dms., c.l., dlvd lb. .29¼- —
dms., l.c.l., dlvd. lb. .29¾- —
tanks, dlvd. lb. .27½- —
Glycerine, syn., dms., c.l., dlvd lb. .29½- —
dms., l.c.l., dlvd. lb. .30 - —
tanks, dlvd. lb. .27¾- —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
Glyoxal, 30%, dms., c.l., works lb. .20½- —
dms., l.c.l., works lb. .21¼- —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls lb. 4.10 - —
Grapefruit oil, dms. lb. 1.95 - 2.75
Graphite, amorp, powd., bgs., fib. dms., ex whse lb. .08 - .09½
Graphite, amorph., cryst., 85-90%, powd., bgs., fib. dms. ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Flake, No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice all hog, tanks, dlvd lb. .08¾- .09½
Yellow, tanks, dlvd lb. .07¼- .07¾
Grease oil, No. 1, dms., c.l. lb. .15¾- —
dms., l.c.l. lb. .16¾- .18¼
extra winter, strained, dms., c.l. lb. .18¼- —
dms., l.c.l. lb. .19¼- .21¼
prime, burning, dms., c.l. lb. .19¾- —
dms., l.c.l. lb. .20¾- .22¾

Green Pigments

Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls lb. .45 - —
Guaiacol, NF, cryst. dms., tins lb. 2.10 - 2.15
NF liq. cbys., dms. lb. 2.30 - 2.40
Guaiacol carbonate, NF, VII, dms. lb. 3.40 - 3.45
Guaiacwood oil, cns. lb. .85 - 1.50
Guar gum, food grade, bgs., c.l. lb. .38 - .44
bgs., 5,000 lbs. or more lb. .39 - .44
Tech. grade, bgs. lb. .30 - .33

Gums

Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

Gypsum, plaster of Paris, 100-lb. paper bgs., trucks, dlvd. New York ton.20.30 - —
Gypsum, terra alba, dom., 100-lb. paper bgs., trucks, same basis ton.20.00 - —
100-lb. paper bgs., trucks, works, New York ton.17.00 - —
Imp., English, 100-lb. paper bgs., ex dock, New York ton.55.00 - —
100-lb paper bgs., ex whse. ton.60.00 -62.00

H

H acid, dry, bbls., c.l., frt. alld., 100% basis lb. .90 - —
bbls., l.c.l., same basis lb. .95 - —
Hansa yellow, 10 G, bbls., dlvd. E. of Rockies lb. 2.45 - —
Hansa G yellow, pigment, bbls lb. 2.20 - —
Hawthorn berries, bgs. lb. .21 - —
Heliotropin, 100-lb. lots, dms. lb. 2.50 - 3.00
Hellebore root, dom., green, bls lb. .70 - .75
Helonias root, bls. lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No. 5, bbls., l.c.l. lb. .37 - —
Paste, No. 1, bbls., l.c.l. lb. .20½- —
Hemlock oil, cns. lb. 2.85 - 3.55
Henbane leaves, bls. lb. .35 - .40
Heptachlor, dms., c.l., t.l., 100% basis, frt. alld lb. .90 - —
Heptane, indust., tanks, Bayonne, N. J. gal. .20 - —
tanks, Baytown, Tex. gal. .16¼- —
tanks, Borger, Tex. gal. .16¼- —
tanks, Houston, Tex. gal. .16¼- —
Hesperidin, purif., 100-lb. fib. dms., f.o.b., works lb. 8.95 - —
Hesperidin methylchalcone, bots., 50-lb. lots, works lb.22.50 - —
bots., 5-lb. lots, works lb.23.00 - —
bots., 1-lb lots, works lb.23.50 - —
Hexachlorophene, dms. lb. 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or New York lb. .233 - —
Hexamethylenetetramine, tech., bgs., 1,000-19,999-lb. lots, same basis lb. .243 - —
bgs., smaller lots, same basis lb. .253 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .250 - —
fib. dms., smaller lots, same basis lb. .253 - —
USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- .48½
Hexane, indust., tanks, Bayonne, N. J. gal. .20 - —
tanks, Borger, Tex., dlvd gal. .16 - —
tanks, Houston, Tex. gal. .16 - —
1-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
n-Hexyl methacrylate, dms., c.l., works lb. .75½- —
dms., l.c.l., works lb. .76 - —
Hexyl salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .17½- —
dms., l.c.l., dlvd. lb. .18½- —
tanks, dlvd. lb. .15 - —
Hexylresorcinol, USP, dms., 25-lb. lots or more, dlvd lb.14.00 - —
dms., smaller lots, dlvd. lb.14.50 - —
Homatropine hydrobromide, USP, bots oz. 3.00 - —
Homatropine methylbromide, USP, bots. oz. 3.90 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.50 - —
Horehound herb, bls. lb. .16 - .19
Hydrastis (see Goldenseal).
Hydrazine hydrate, 85% ret. dms., works lb. 1.35 - 1.55
100%, ret. dms., works lb. 1.60 - 1.90
Hydriodic acid, 1.50 s.g., cbys. lb. 2.32 - —
1.70 s.g. cbys. lb. 3.23 - —
Hydroabietyl alcohol tech., solid, dms., c.l., dlvd. zone 1 lb. .29¼- —
dms., l.c.l., dlvd. zone 1 lb. .29¾- .30¼
tanks, dlvd. zone 1 lb. .27¼- —
Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, cbys., dlvd. E lb. .37 - .43
Hydrochloric acid, anhyd. (see Hydrogen chloride)
Hydrochloric acid 18° cbys., c.l., works 100 lbs. 2.50 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton.28.00 - —
20°, cbys., c.l., works 100 lbs. 2.75 - —
cbys., l.c.l., dlvd. Metropolitan area 100-lbs. 3.15 - —
tanks, works frt. equald ton.30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 3.65 - —
tanks, works frt. equald ton.35.00 - —
CP, USP, consumers cbys. extra c.l. works lb. .15¾- —
cbys., l.c.l., same basis lb. .17¼- .17¾
Hydrochloric acid, 8-pint bots., extra cs., c.l., same basis lb. .20¾- —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram. 2.25 - —
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram. 2.25 - —
Hydrocyanic acid, dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal. dms., c.l., t.l., dlvd. 100 lbs.19.25 - —
55-gal. dms., l.c.l., l.t.l., dlvd. 100 lbs.20.75 - —
20-gal. dms., c.l., t.l., dlvd. 100 lbs.21.00 - —
20-gal. dms., l.c.l., l.t.l., dlvd. 100 lbs.22.50 - —
tanks, works frt. equald. 100 lbs.15.50 - —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic acid, dms., works, 30% basis lb. .06 - —
Hydrofuramide dms., fib. ctns., works lb. .30 - .40
50-lb. cyls., l.c.l., works lb. .55 - .60
Hydrogen chloride, anhyd 50-lb. cyls., l.c.l., works lb. .45 - —
Hydrogen cyanide liq., 98% tanks, works lb. .16 - —
Hydrogen fluoride, anhyd., cyls., dlvd. E lb. .30½- .32½
cyls. dlvd. W. lb. .39 - —
tanks, works lb. .21 - —
Hydrogen peroxide, USP, bbls. dlvd. lb. .03¾- .05
35%, dms., c.l., dlvd. lb. .202 - —
dms., l.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800- —
Hydroquinone photo grade, dms lb. 1.03 - 1.06
Tech. dms., c.l., dlvd. lb. .82½- —
dms., l.c.l., dlvd. lb. .84½- —
Hydroxyacetic acid, tech., 70%, dms., Philadelphia and Chicago lb. .11 - —
tanks, Belle, W. Va. lb. .073 - —
Hydroxycitronellal, cns. lb. 4.50 - 5.30
Hydroxyethyl cellulose, low viscosity grades, 20,000-lb. lots or more, f.o.b. shipping point lb. 1.00 - —
2,000 to 19,999-lb. lots, same basis lb. 1.05 - —
150 to 1,999-lb. lots, same basis. lb. 1.07 - —
Less than 150-lb. lots, same basis lb. 1.17 - —
Hydroxyethyl cellulose, high viscosity grades, 20,000-lb. lots or more, more, f.o.b. shipping point lb. 1.10 - —
2,000 to 19,999-lb. lots, same basis lb. 1.15 - —
Hydroxyethyl cellulose, 85 to 1,999-lb. lots, same basis lb. 1.17 - —
Less than 85-lb. lots, same basis. lb. 1.27 - —
Hyoscine salts (see Scopolamine)
Hyoscyamine hydrobromide, bots.oz. 6.00 - 7.00
Hyoscyamine sulfate, bots. oz. 6.00 - 6.50
Hypernic extract, cryst. No. 1 bbls., l.c.l. lb. .52 - —
Liq. No. 1 bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —
Hypophosphorous acid purif. 50% cbys., ton lots, f.o.b. works lb. .85 - —
NF, 30%, cbys., all quantities, same basis lb. .75 - —

I

Ichthammol, NF, dms. lb. .75 - 1.05
Indigo (see Dyes coaltar, 1171 indigo, syn).
Indole, CP, bots lb.15.75 -18.25
Inositol bots., dlvd. lb. 5.00 - —
dms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs. lb. .95 - —
Resub., USP, dms lb. 2.00 - 2.02
Iodochlorohydroxyquinolin USP, dms lb. 3.60 - —
Iodoform, NF, dms., kgs. lb. 4.90 - 5.00
a-Ionone, cns. lb. 3.80 - 4.15
b-Ionone, cns. lb. 4.20 - 4.90
Ipecac root, whole, bgs. lb. 8.75 - 9.25
Powd., bbls., bxs. lb. 9.50 -10.00
Irish moss, bleached, prime, bls lb. .28 - .34
Iron blue, reg., bbls., c.l., dlvd. E lb. .52 - —
bbls., l.c.l., ton lots, same basis. lb. .53 - —
bbls., smaller lots, same basis. lb. .54 - —
Iron blue, imp., British, bbls., c.l., dlvd., E lb. .48 - —
bbls., l.c.l., ton lots, same basis. lb. .49 - —
bbls., smaller lots, same basis lb. .50 - —
Iron blue, alkali-resisting, bbls., c.l., dlvd. E lb. .57 - —
bbls., l.c.l., ton lots, same basis. lb. .58 - —
bbls., smaller lots, same basis lb. .59 - —
Iron blue dlvd. prices 1c. higher for Pacific Coast states:—Wash., Ore., Cal., N. M., Ariz., Mon., Wyo., Utah, Col. and Nev.
Iron compounds (see Ferric or Ferrous)
Iron oxide, black, pure, bgs., c.l., works lb. .14¾- —
bgs., l.c.l., works lb. .15 - —
Iron oxide, brown, pure, bgs., c.l., works lb. .14¼- —
bgs., l.c.l., works lb. .14½- —
Iron oxide, metallic, brown, bgs., works lb. .05¼- —
Iron oxide, Persian Gulf, red, bgs., c.l., works lb. .08¾- —
Iron oxide, red, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .14¼- —
Iron oxide, red, nat., 75-85% ferric oxide, bgs., c.l., works lb. .06¼- —
bgs., l.c.l., works lb. .06½- —
Iron oxide, Spanish red, bbls., c.l., ex dock lb. .05¾ Nom.
bbls., l.c.l., ex dock lb. .06 Nom.
bbls., l.c.l., ex whse, New York lb. .05¼ Nom.
Iron oxide, yellow, nat., French type, bgs., c.l., works lb. .06¼- —
Peruvian type, bgs., l.c.l lb. .023 - .024
Iron oxide, yellow, pure, light lemon shade, bgs., c.l., works lb. .12¼- —
Other shades, same basis lb. .12 - —
Isoamyl alcohol, dms., c.l., works, frt. alld. E lb. .27½- —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .25 - —
Isoborneol, cns. lb. 1.44 - 1.80
Isobornyl acetate, cns. lb. .48 - .56
Isobornyl formate, dms. lb. 1.20 - —
Isobornyl proprionate, dms. lb. 1.25 - 1.35
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
Solvent grade, dms., c.l., dlvd. E. of Rockies lb. .15¼- —
dms., l.c.l., same basis lb. .16¼- —
tanks, same basis lb. .12¾- —
Isobutyl alcohol, dms., c.l., dlvd. lb. .16 - —
dms., l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .13½- —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½- —
dms., l.c.l., dlvd. lb. .28½- —
Isobutyraldehyde, tech., dms., c.l., dlvd lb. .21½- —
dms., l.c.l., dlvd. lb. .22½- —
tanks, dlvd. lb. .19½- —
Isoeugenol, cns. lb. 3.55 - 3.75
Isoniazid, powd., bulk, 25-kilo lots. or more kilo.23.00 -25.50
bulk, smaller lots. kilo.24.00 -26.00
Isonicotinic acid, 100-lb. fib dms., works lb. 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid).
Iso-octyl alcohol, dms., c.l., dlvd. E. lb. .23½- —
dms., l.c.l., dlvd. E. lb. .24½- —
tanks, dlvd. E. lb. .21 - —
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .15¼- —
Isopropanol (see Isopropyl alcohol).
Isophorone, dms., c.l., works lb. .24½- —
dms., l.c.l., works lb. .25½- —
tanks, works. lb. .22½- —
Isopropyl acetate, dms., c.l., dlvd. lb. .14 - —
dms., l.c.l., same basis lb. .15 - —
tanks, same basis lb. .11½- —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 - —
dms., l.c.l., dlvd. gal. .65 - —
tanks, dlvd. gal. .42 - —
Refd., 95%, c.l., dms., dlvd gal. .60 - —
dms., l.c.l., dlvd gal. .67 - —
tanks, dlvd. gal. .44 - —
Refd., 99%, dms., c.l., dlvd gal. .62 - —
dms., l.c.l., dlvd gal. .69 - —
tanks, dlvd. gal. .46 - —
Isopropyl benzene (see Cumene).
Isopropyl ether, dms., c.l., dlvd lb. .09½- —
dms., l.c.l., dlvd. lb. .10½- —
tanks, dlvd. lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC), tech., dms., c.l., t.l., works lb. 1.00 - —
dms., l.c.l., works lb. 1.05 - 1.25
tanks, works. lb. .99 - —
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works lb. .75 - —
450-lb. fib. dms., l.c.l., works lb. .80 - .90
Isoquinoline, dms., works lb. .85 - 1.25
Itaconic acid, purif. fib. dms., c.l. works lb. .54 - —
fib. dms. l.c.l., works lb. .55 - —
Tech. fib. dms., c.l., works lb. .39 - —
fib. dms., l.c.l., works lb. .40 - —

J

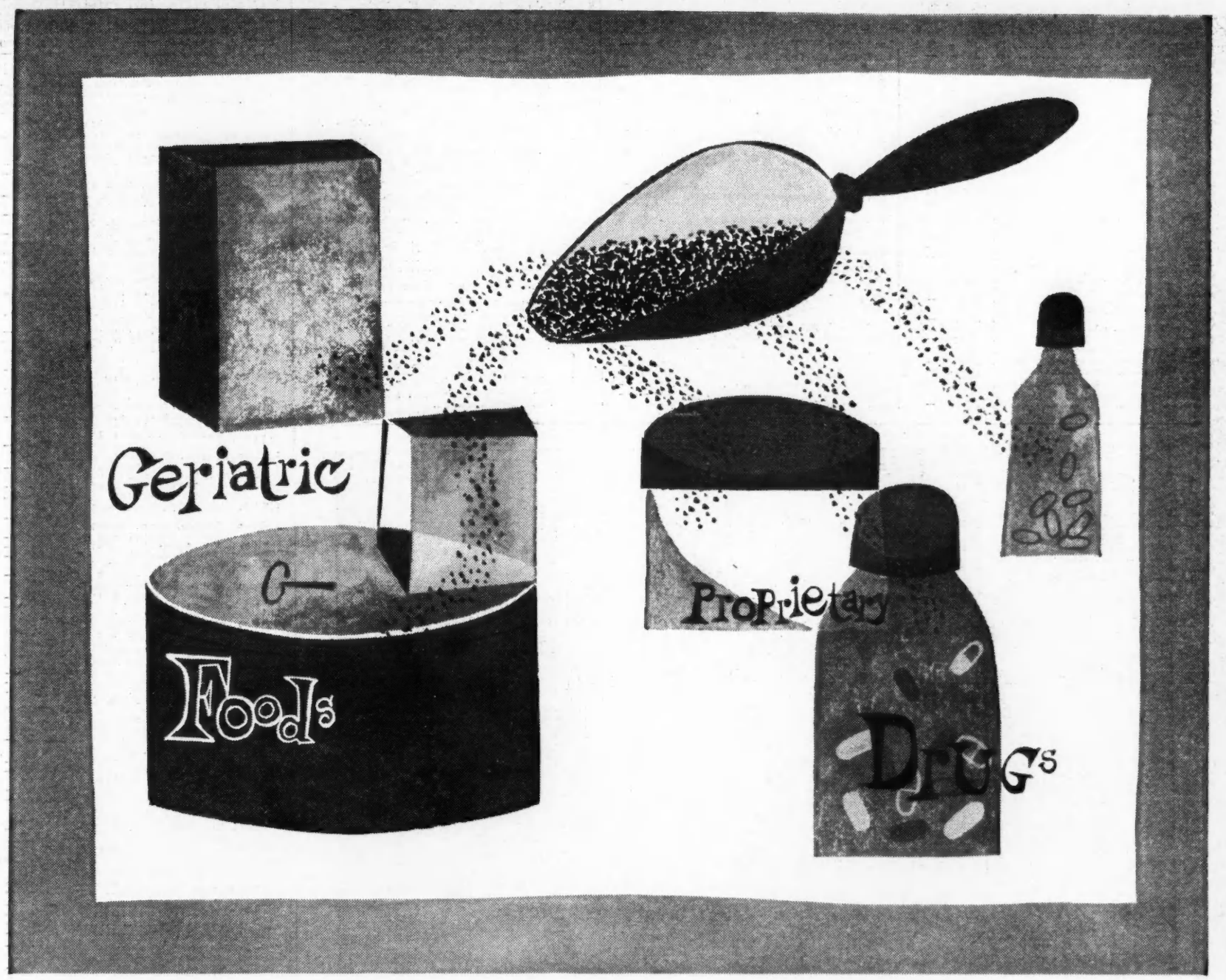
J acid, paste, bbls., works, 100% basis lb. 2.45 - —
Powd. bbls., same basis lb. 2.50 - 2.85
Jalap root, NF, bls. lb. .25 - —
powd., bbls., bxs. lb. 1.00 - —
Japan wax, cs lb. .28 - .30
Juniper berries, bgs. lb. .15 - —
Juniper berry oil, bots. lb. 2.90 - 3.75
Twice rectified bots. lb. 3.80 - 7.00
Juniper tar oil, NF, dms lb. .42 - .60
Juniper wood oil, tech. cns. lb. .38 - .55

K

Kaolin (see also Clay, China).
Kaolin, NF, powd., fib. dms. lb. .10 - .12
colloidal, 50-lb. bgs. lb. .15½- .17¼
Karaya gum No. 1, NF, powd. bbls lb. .38 - .43
No. 2, powd., bbls. lb. .32 - .34
No. 3, powd., bbls. lb. .28 - .30
Koch acid, bbls., frt. alld., 100% basis lb. 1.00 - —
Kola nuts, bgs. lb. .13 - —

L

L acid, bbls., works lb. 1.25 - —
Lacquer diluent, petroleum, 150°-240° F b.r., tanks, west coast, ex tax, Los Angeles gal. .174 - —
Lacquer diluent, petroleum, 150°-240° F. b.r., tanks, east coast, N. J., N. Y gal. .20 - —
Lacquer diluent, benzene type, tanks, group 3 gal. .1550- —
Toluene type, tanks, group 3 gal. .14375- —
tanks, Houston, Tex. gal. .16 - —
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald lb. .1788- .2740
bbls., dms., 20 or more, frt. equald lb. .1838- .2790
bbls., dms., 5 to 19 frt. equald. lb. .1888- .2840
bbls., dms., 1 to 4, frt. equald. lb. .1938- .2890
80%, c.l., bbls., dms., frt. equald lb. .3039- .4625
bbls., dms., 20 or more, frt. equald lb. .3089- .4678
bbls. dms. 5 to 19 frt. equald. lb. .3139- .4725
bbls. dms. 1 to 4 frt. equald. lb. .3189- .4778
Plastic grade, 50% c.l., bbls., works lb. .2740- —
bbls., 20 or more, works lb. .2790- —
bbls., 5 to 19, works lb. .2840- —
bbls., 1 to 4, works lb. .2890- —
80%, bbls., c.l., works lb. .4625- —
bbls., 5 to 19, works lb. .4725- —
bbls., 1 to 4, works lb. .4775- —
Tech., 22%, bbls., c.l., works, 100 lbs. 6.80 - —
bbls., l.c.l., works 100 lbs. 7.30 - —
44%, bbls., c.l., works 100 lbs.11.45 -12.70
bbls., l.c.l., works 100 lbs.11.85 -13.10
USP, 85%, cbys. lb. .85 - —
Lactose, crystalline, edible, bgs., 25,000-lb. lots, frt. equald lb. .14 - —
bgs., 5,000-lb. lots, frt. equald lb. .14½- —
bgs., 2,000-lb. lots, frt. equald lb. .14¾- —
bgs., 200-lb. lots, frt. equald lb. .15¼- —
Edible lactose in fib. dms., ½c. higher.
Lactose, ferment. grade, bgs., c.l., works lb. .08½- —
USP, fib. dms., 30,000-lb. lots, frt. equald lb. .21½- —
fib. dms., 2,000-lb. lots, frt. equald lb. .22¼- —
fib. dms., 200-1,800-lb. lots, frt. equald lb. .22¾- —
USP lactose in bags ½c. to 1c. lower.
Lactose, USP, spray dried, bgs., t.l., frt. equald lb. .18½- —
bgs., l.t.l., frt. equald lb. .19 - .19¾
Lady's slipper root, bls. lb. 3.50 - 3.75
Lake C red toner, alizarine, bbls., works lb. 1.25 - —
Lamp black, bgs., c.l., works lb. .16 - .45
Lanolin, cosmetic, dms., works lb. .27 - .29
USP, anhyd., dms., works lb. .24 - .26
hydrous, dms., works lb. .23 - .25
Lard, cash, dms. lb. .13 Nom.
Lard oil (see Grease oil).
Larkspur seed, bgs. lb. .35 - —
Laurel leaf oil, dms., cns. lb. 9.75 -12.50
Laurent's acid, bbls. lb. .60 - —



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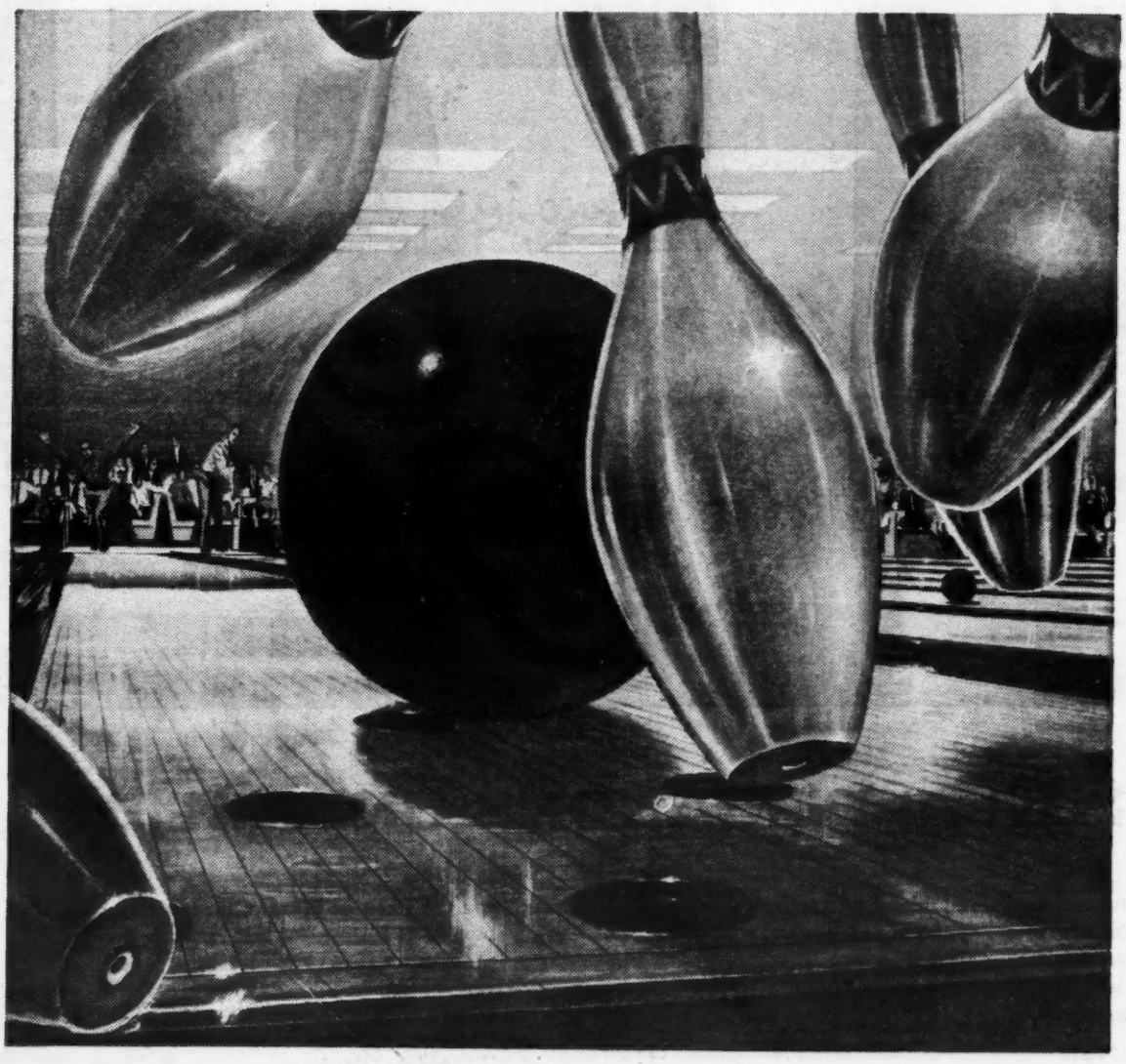
Lauric acid, 90%, dms. ..... lb. .31 - .33¼
tanks ..... lb. .28½- —
Lauryl alcohol, bots. ..... lb. 2.00 - 2.50
n-Lauryl methacrylate, dms., c.l., t.l. works lb. .65½- —
dms., l.t.l., works ..... lb. .66 - —
Lavandin oil, 22-24%, dms. ..... lb. 1.25 - 2.00
Abrial, dms. ..... lb. .95 - 1.50
Lavender flowers, medium, bls. lb. .75 - .80
Ord., bls. ..... lb. .25 - .40
Select., bls. ..... lb. 1.10 - —
Lavender flower oil, USP, French, 35-37% ester, cns lb. 3.50 - 9.50
38-42% ester, cns ..... lb. 5.00 -10.00
Spike, Spanish, cns. ..... lb. 2.20 - 2.85
Lead acetate, NF, cryst., gran., powd. lb. .34½- —
White, cryst., bbls. ..... lb. .25½- —
gran., bbls. ..... lb. .26½- —
powd., bbls. ..... lb. .26½- —
Lead arsenate, acid powder, dealers, 5-lb. bgs. or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
3-lb. bgs. or larger, l.c.l., frt. alld. lb. .28½- —
1-lb. bgs., c.l. ..... lb. .41½- —
1-lb. bgs., l.c.l. ..... lb. .42½- —
Lead, blue, basic sulfate, bbls., c.l., shipt. point, frt. alld. lb. .17½- —
bbls., l.c.l. same basis ..... lb. .18¼- —
Lead carbonate (see Lead, white, basic carbonate).
Lead chloride, dms. ..... lb. .53 - —
Lead iodide NF V jars ..... lb. 3.82 - —
Lead linoleate fused 30% Pb, dms. lb. .38 - —
Lead metal, prime, pigs, New York. lb. .13 - —
St. Louis ..... lb. .1280- —
Lead monosilicate, bgs., c.l., works, frt. equald. lb. .143 - —
bgs., l.c.l., same basis ..... lb. .153 - —
Lead naphthenate, liq., 16% Pb, dms., dlvd. lb. .19½- —
24% Pb, dms., dlvd. ..... lb. .24¼- —
Solid, 37% Pb, dms., dlvd. ... lb. .31¾- —
Lead nitrate, bbls. ..... lb. .26¾- —
Lead orthosilicate-gel, 50-60% PbO, dms., works lb. .29¾- .34¼
Lead peroxide, tech. powd., bbls lb. .45 - .50
Lead phthalate dibasic dms., works. lb. .41 - —
Lead, red, 95% Pb_3O_4 or less, bbls., c.l., works, frt. equald. lb. .15¼- —
bbls., l.c.l., same basis ... lb. .16¼- —
97% Pb_3O_4, bbls., c.l., same basis. lb. .1545- —
bbls., l.c.l., same basis ..... lb. .1645- —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1560- —
bbls., l.c.l., same basis ..... lb. .1660- —
Lead resinate, precip. 23% Pb, dms., ton lots, dlvd lb. .40¼- —
Lead salicylate, normal, dms., works. lb. .46 - —
Lead silicate (see Lead white basic silicate).
Lead silico-chromate, bgs., c.l. ... lb. .19¾- —
bgs., l.c.l. ..... lb. .20¾- —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate, liq., 16% Pb, dms. lb. .15 - —
24% Pb, dms. ..... lb. .18½- —
Solid, 30% Pb, dms. ..... lb. .23¼- —
Lead, white, basic carbonate, bgs., c.l., shipt. pt., frt. alld. lb. .17¾- —
bgs., l.c.l., same basis ..... lb. .18¾- —
Lead, white, basic silicate, bgs., c.l., shipt. pt., frt. alld. lb. .16¼- —
bgs., l.c.l., same basis ..... lb. .17¼- —
Lead, white, basic sulfate, bgs., c.l., shipt. pt., frt. alld. lb. .16¼- —
bgs., l.c.l., same basis ..... lb. .17¼- —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works. lb. .14 - .15
non-ret. dms., l.c.l., same basis lb. .15 - .16
unbleached, non-ret. dms., c.l., same basis lb. .13 - .14
non-ret. dms., l.c.l., same basis lb. .14 - .15
Lemon bioflavonoid complex, fib. dms., 25-lb. lots, works lb. 9.00 - —
Lemon oil, USP, Calif., cns., dms lb. 3.15 - 4.00
Messina, cns. ..... lb. 4.50 - 9.50
Lemongrass oil, cns., dms. ..... lb. .90 - 1.50
dl-Leucine, dms., works ..... lb. 12.25 -15.00
Licorice root, gran., bls. ..... lb. .15 - .17
Powd., bls. ..... lb. .12 - .15
Whole, bls. ..... lb. .10 - .12
Lignaloe wood oil, Mexican, cns lb. 2.75 - 3.50
Lignosulfonate (see under ammonium or sodium lignin sulfonate).
Lime, chemical (quicklime), bulk, c.l., 50,000 lbs., works, E. ton. 14.25 - —
Chemical, hydrated, bgs., c.l., same basis ton. 17.25 - —
Chemical, spray, bgs., c.l., same basis ton. 18.25 - —
For New York delivery, add $6.29 freight charge.
Lime oil, dist., Mexican, cns. .... lb. 6.50 - 6.80
West Indian, cns. ..... lb. 6.50 - 6.75
Expressed, West Indian, cns. .. lb. 8.50 -13.70
Lime salts (see Calcium).
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool, ex bois de rose oil, dms. lb. 3.90 - 4.50
Syn., 98-100%, dms., works ... lb. 4.40 - —
Linalyl acetate, ex bois de rose, 90-92%, dms. lb. 4.30 - 5.35
96-98%, dms. ..... lb. 4.85 - 5.60
Ex petitgrain, bots. ..... lb. 4.80 - 5.90
Syn., 98-100%, dms., works .... lb. 4.40 - —
Lindane, 25%, formulation dealers, dms., frt. alld lb. 1.65 - 1.82
Lindane, 99%, tech. formulators, dms., frt. alld lb. 2.65 - 3.25
Linden flowers, with leaves, bls lb. .25 - —
Without leaves, bls. ..... lb .30 - —
Linseed meal expeller, 32% bulk, Minneapolis, mills ton. 57.00 - —
Extracted, 34% bulk, same basis. ton. 50.00 - —
Linseed oil, raw, dms., c.l., New York lb. .1670- —
dms., l.c.l., New York .... lb. .1770- —
tanks, f.o.b. Minneapolis ... lb. .1320- —
tanks, New York ..... lb. .1470- —
tankwagon, New York ..... lb. .1510- .1530
Boiled linseed oil, .006c. per lb. higher.
Linseed oil acids, dist., dms .... lb. .1970- —
Water-white, dms. ..... lb. .2270- —
Linseed pitch, dms. ..... lb. .06 - .06¼
Litharge, coml. powd., bbls., c.l., works, frt. equald lb. .14¾- —
bbls., l.c.l., same basis .. lb. .15¾- —
Lithium benzoate, dms. ..... lb. 1.65 - 1.67
Lithium bromide, NF, gran., works, frt. equald lb. 2.60 - —
Lithium carbonate, NF, dms., c.l., t.l., dlvd lb. 1.29½- —
dms., ton lots to t.l., dlvd lb. 1.30 - 1.30½
Tech., dms., c.l., t.l., frt. alld lb. .67 - —
dms., ton lots, same basis .. lb. .73 - —
Lithium carbonate, tech., dms., smaller lots, same basis. lb. .79 - —
Lithium chloride, CP, anhyd., dms., ton lots lb. 1.23½- —
Tech., anhyd., dms., c.l., t.l., dlvd. or works, frt. alld lb. .87 - —
dms., l.c.l., same basis .... lb. .88 - .92
Lithium citrate, NF, dms., ton lots. lb. 1.50 - —
Lithium fluoride, dms., 20,000-lb. lots, dlvd lb. 2.15 - —
bbls., ton lots and more, dlvd. lb. 2.18½- —
bbls., less ton lots, dlvd. ..... lb. 2.23½- —
Lithium hydride, powd., dms., 500-lb. lots or more, works lb. 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld lb. .72 - —
dms., l.c.l., frt. alld. ..... lb. .73 - —
Lithium manganite, dms., works. lb. .85 - 1.05
Lithium nitrate, tech., dms., 100-lb. lots lb. 1.15 - 1.25
Lithium salicylate, dms. ..... lb. 1.60 - 1.70
Lithium silicate, dms., works .. lb. 1.10 - 1.20
Lithium stearate, dms., c.l., works. lb. .47½- —
dms., ton lots, works ..... lb. .48½- —
dms., less-ton lots, works .... lb. .53½- —
Lithium sulfate, dms., 100-lb. lots. lb. 1.15 - 1.25
Lithium titanate, dms., works .. lb. 1.15 - 1.25
Lithol red toner, barium, bbls., works lb. .98 - —
Lithol-rubine red toner, pure bbls., works lb. 1.50 - —
Resinated, bbls., works ..... lb. 1.47 - —
Lithopone, ord., bgs., c.l., dlvd. E. lb. .08¾- —
bgs., l.c.l., dlvd. E. ..... lb. .09¼- —
Lithopone, titanated (high-strength), bgs., c.l., dlvd lb. .11 - —
bgs., l.c.l., dlvd. ..... lb. .12 - —
Lobelia herb, bls. ..... lb. .45 - —
Lobeline sulfate, bots., works oz. 37.50 -38.50
Locust bean gum, powd., bgs. .... lb. .38 - .39
Logwood extract, cryst., No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l. ..... lb. .39 - —
Liq. No. 1, bbls., l.c.l. ..... lb. .20 - —
No. 2, bbls., l.c.l. ..... lb. .19 - —
No. 3, bbls., l.c.l. ..... lb. .18½- —
Solid, No. 1, boxes, c.l. ..... lb. .35 - —
Lycopodium, cs. ..... lb. 9.00 - —
l-Lysine monohydrochloride, fib. dms., 25 lbs. or more .. lb. 8.00 - —

M

Mace, Siauw, No. 1 bls. ..... lb. 2.45 - —
No. 2, whole, bls. ..... lb. 2.10 - —
siftings, bls. ..... lb. 2.00 - —
Mace oil, dist., cns., dms. ..... lb. 12.75 -15.75
Magnesia, calcined, tech., bgs., ctns., frt. equald lb. .25¾- .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb. .29¾- .30½
rubber grade, extra light, bgs., c.l., frt. equald lb. .29¾- —
bgs., l.c.l., frt. equald. lb. .30½- —
USP, light bgs. ..... lb. .36½- .37½
heavy, fib. dms. ..... lb. .45 - .52
Magnesite, chemical grade, calcined, powd. bgs., c.l., works, frt. equald ton. 82.50 - —
Magnesite, chemical grade, dead-burnt, standard grain bulk c.l., Chawelah, Wash. ton. 46.00 - —
Magnesium bromide, cs., jars .... lb. .95 - 1.00
Magnesium carbonate, tech., bgs., c.l., frt. equald. lb. .10½- —
bgs., t.l., frt. equald. ..... lb. .11 - —
bgs., l.c.l., frt. equald. ..... lb. .12½- .13½
Magnesium carbonate, USP, bgs., c.l., frt. equald. lb. .13 - —
bgs., t.l., frt. equald. ..... lb. .13½- —
bgs., l.c.l., frt. equald. ..... lb. .14½- .15½
Above prices are quoted f.o.b. works, freight equald, with Metropolitan New York and competitive producing points.
Magnesium chloride, anhyd., 92% flake or pebble dms., c.l., works. lb. .12¾- —
dms., l.c.l., works. ..... lb. .14 - .15
Magnesium chloride, hydrous, 99% flake, bgs., c.l., works. ton. 55.00 - —
bgs., l.c.l., works. ..... ton. 65.00 -80.00
Magnesium gluconate, dms. ..... lb. 1.42 - —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b., works. lb. .24½- .25½
Magnesium lauryl sulfate, dms., c.l., frt. alld. lb. .21 - —
dms., l.c.l., frt. alld. ..... lb. .22 - —
tanks, frt. alld. ..... lb. .20 - —
Magnesium metal, 99.8% ingots, 10,000-lb. lots or more, works. lb. .36 - —
Pigs, 10,000-lb. lots or more, works. lb. .35¼- —
Sticks, cs. works frt. alld. on carlots lb. .50 - —
Magnesium nitrate, cryst., dms., works. lb. .29 - —
Magnesium oxide (see Magnesia, calcined).
Magnesium peroxide, 15%, dms., works. lb. 1.00 - 1.05
Magnesium phosphate tribasic, NF, bbls. lb. .75 - —
Magnesium silicate (see Talc).
Magnesium silicofluoride, dms., works. lb. .10½- .12



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Magnesium sulfate, tech., bgs., c.l., works	100 lbs.	2.15	—
bgs., l.c.l., works	100 lbs.	2.90	- 3.15
USP, cryst., bgs., c.l., works, 100 lbs.		2.35	—
bgs, l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	3.10	—
bgs, smaller lots	100 lbs.	3.35	—
Magnesium trisilicate, USP, fib. dms., 5,000-lb. lots	lb.	.38	—
fib. dms., 1,000-lb. lots	lb.	.40	—
fib. dms., 100-lb. lots	lb.	.45	—
Bulky and super grades of magnesium trisicilate 7c. per. lb. higher.			
Malachite green straight, PTMA, bbls, works	lb.	5.30	—
Malathion, dms., c.l., works	lb.	.89	—
dms., l.c.l., works	lb.	.92	- 1.01
Maleic acid, cryst., powd., dms	lb.	.37½	—
Maleic anhydride dms., c.l., dlvd. E. of Rockies	lb.	.28¾	—
dms., l.c.l., dlvd. E. of Rockies	lb.	.29¾	—
tanks, dlvd. E. of Rockies	lb.	.27¾	—
Prices on maleic anhydride W. of Rockies, 1½c. per. lb. higher.			
Malic acid, tech., dms.	lb.	.50	—
Mandelic acid NF dms., 1,000-lb. lots.	lb.	2.35	—
dms., smaller lots	lb.	2.40	- 2.50
Mandrake root, bls.	lb.	.48	- .50
Manganese acetate, dms., dlvd.	lb.	.35	—
Manganese borate, tech., fib. dms.	lb.	.23½	—
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb. lots and more, works	lb.	.11	- .16
Manganese chloride, CP anhyd., dms., 20,000-lb. lots, works	lb.	.21¾	—
Smaller lots, works	lb.	.23½	—
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, burlap paper lined bgs., gross for net works	ton.	148.00	- —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, paper bgs., same basis	ton.	144.50	- —
40,000 to 99,999-lb. lots, dms. same basis	ton.	152.50	- —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.			
Manganous gluconate, dms	lb.	1.64	- —
Manganese hydrate, dms., dlvd	lb.	.35	- —
Manganese hypophosphite, NF, dms.	lb.	3.52	- —
Manganese linoleate, liq., 4.35% Mn, dms	lb.	.35¾	—
Solid, precip., 8.2% Mn, bbls	lb.	.41¼	—
Manganese metal, electrolytic, dms., c.l., dlvd. E.	lb.	.34	- —
dms., ton lots, dlvd. E.	lb.	.36	- —
dms., smaller lots, dlvd. E.	lb.	.38	- —
Manganese naphthenate, liq., 6% Mn, dms., frt. alld	lb.	.29¾	—
Manganese resinate, fused, 3½% Mn, dms	lb.	.25¼	—
Precip., 6½-7% Mn, dms	lb.	.33	- —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd. S. E.	ton.	97.50	- —
bgs. l.c.l., dlvd. S. E.	ton.	104.50	- —
Manganese tallate, 6% dms	lb.	.24	- —
Mangrove bark, E. African, 38% tannin, bgs., c.l., ex dock	ton.	67.00	-68.00
Mangrove bark, South American, 30% tannin, bgs., c.l., ex dock	ton.	47.00	-50.00
Manila copal gum, C, bgs.	lb.	.35	- .39
DBB, bgs.	lb.	.25	- .28
DK, bgs.	lb.	No stocks.	
DK, dust bgs.	lb.	.14	Nom.
MA, soft, bgs.	lb.	.20	- .24
WS, bgs.	lb.	No stocks.	
Mannitol, com'l, fib. dms., ton lots, works	lb.	.60	- —
fib. dms. to ton lots, works	lb.	.62	- —
fib dms., single dm. works	lb.	.65	- —
Marine pitch, dms.	lb.	.04¼	- .05
MBTS (see Mercaptobenzothiazyl disulfide).			
MBT (see 2-Mercaptobenzothiazole).			
Melamine, bgs., c.l., works	lb.	.30	- —
bgs., l.c.l., works	lb.	.31	- —
Menadione, USP, bots.	gram.	.044	- .05
Menhaden oil, crude, tanks, works, Atl. & Gulf	lb.	.07½	—
Menthol, nat., USP, Brazilian, cs.	lb.	5.00	- 5.25
Japanese, cs.	lb.	7.00	- 7.18
Syn., USP, racemic, cns	lb.	4.50	- —
2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld	lb.	.44	- —
bgs., fib. dms. less ton lots, same basis	lb.	.46	- —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton lots, works, frt. alld	lb.	.54	- —
bgs., fib. dms., less ton lots, same basis	lb.	.56	- —
Mercuric chloride NF, cryst., dms., 50-lb lots or more	lb.	4.98	- —
gran. or powd., dms., 100-lb. lots or more	lb.	4.78	- —
Mercuric cyanide, NF, VIII, powd., fib. dms	lb.	6.84	- —
Mercuric iodide red, NF, X, fib. dms.,	lb.	7.72	- —
Mercuric oxide, red, NF, X, powd., 50-lb. lots or more	lb.	5.97	- —
Tech., 100-lb. lots or more, works	lb.	5.77	- —
Mercuric oxide, yellow, NF, X, fib. dms	lb.	6.14	- —
tech., bbls., 1,000-lb. lots	lb.	5.58	- —
bbls., smaller lots	lb.	5.60	- —
Mercurous chloride (see Calomel).			
Mercurous iodide, yellow, NF	lb.	7.72	- —
Mercury, ammoniated (see White precipitate, USP XV).			
Mercury metal, 76 lbs. per flask, net flask		233.00	-236.00
Mesityl oxide, dms., c.l., dlvd.	lb.	.15	- —
dms., l.c.l., dlvd.	lb.	.16	- —
tanks, dlvd.	lb.	.12½	—
Meta-aminophenol (see m-Aminophenol).			
Metachloroaniline (see m-Chloroaniline).			
Metanilic acid, dms., works	lb.	.57	- .75
Metanitroparatoluidine (see m-Nitro-toluidine).			
Metanitroaniline (see m-Nitroaniline).			
Metaphenylenediamine (see m- Phenylenediamine).			
Metatoluidine (see m-Toluidine).			
Metatolylenediamine (see 2,4-tolylenediamine).			
Methacrylic acid, glacial, 98%, dms., truckloads, works	lb.	.47	- —
dms., smaller lots, works	lb.	.47½	- .80
tanks, works	lb.	.45	- —
Methanol, nat., denaturing grade, tanks, frt. alld	gal.	.35	- —
Syn. zone 1, dms., c.l. or t.l. min., dlvd	gal.	.47½	—
dms., l.c.l., dlvd.	gal.	.54½	—
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area	gal.	.31	- —
tankwagon, 4,000 gal. min., dlvd	gal.	.26	- —
tankwagon, 4,000 gal. min., works	gal.	.25	- —
Zone 2, dms., c.l., or t.l., min. frt. alld. or dlvd.	gal.	.51½	—
dms., l.c.l., works	gal.	.58½	—
tankwagon, 2,000-4,000 gal. lots, min., dlvd. Metropolitan area	gal.	.35	- —
Methanol, syn., zone 2, tanks, 4,000 gal. min., dlvd	gal.	.30	- —

Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah, Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).			
Methionine hydroxyanalogue, (calcium salt) 90% min., dms., t.l., frt alld	lb.	1.25	- —
dms., l.t.l., same basis	lb.	1.29	- —
dl-Methionine, fib. dms., frt. alld., 50-lb. or more	lb.	3.50	- —
Feed grade, 98%, fib. dms., same basis	lb.	1.55	- —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld	lb.	.61	- .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1	lb.	.21½	—
non-ret. dms., l.c.l., same basis	lb.	.22	- .22½
Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd. zone 1	lb.	.23½	—
non-ret. dms., l.c.l., same basis.	lb.	.24	- .24½

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Methyl acetone, nat., dms., l.c.l., E. of Miss., frt. alld	gal.	.62½	—
Syn., dms., c.l., frt. alld. E.	gal.	.66	- —
dms., l.c.l., frt. alld. E.	gal.	.72	- —
tanks, frt. alld. E.	gal.	.51	- —

Synthetic methyl acetone E. territory comprises all states East of and including Colo., Mont., N. Mex. and Wyo. West territory is made up of all states west of those four.

Methyl acrylate, dms., c.l., t.l., dlvd.	lb.	.39	- —
dms., l.t.l., dlvd.	lb.	.40	- —
tanks, dlvd.	lb.	.37	- —
Methyl alcohol (see Methanol).			
Methyl amyl acetate, dms., c.l., dlvd. E	lb.	.17	- —
dms., l.c.l., dlvd, E.	lb.	.18	- —
tanks, dlvd. E.	lb.	.14½	—
Methylamyl alcohol, dms., c.l., dlvd.	lb.	.17	- —
dms., l.c.l., dlvd.	lb.	.18	- —
tanks, dlvd.	lb.	.14½	—
Methylamyl ketone, dms., works	lb.	1.05	- —
Methyl anthranilate, cns.	lb.	2.25	- 2.75
Methyl benzoate, cns., dms.	lb.	.65	- .75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld	lb.	.62	- .65
Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works	lb.	.82	- —
50-lb. bgs., 2,000-lb. lots and more, same basis	lb.	.89	- —
50-lb. bgs., smaller lots, frt. alld. on 100 lbs	lb.	1.05	- —
Standard vis. (15,400 cps.), 50-lb. bgs., c.l., frt. alld	lb.	.69	- —
50-lb. bgs., 2,000-lb. lots and more, same basis	lb.	.76	- —
50-lb. bgs., smaller lots, frt. alld. on 100-lbs	lb.	.79	- .89
Methyl chloride, indust., cyls., frt. equald	lb.	.22¼	- —
tanks, multi-unit, same basis.	lb.	.16¼	- —
Methyl chloride, indust., tanks, single unit, same basis	lb.	.12¾	- —
Refrigerator mfrs., cyls., dlvd	lb.	.48¾	- —
other consumers or service men, cyls., dlvd	lb.	.67¾	- —
Methyl chloroform (see 1,1,1-Trichloroethane).			
Methyl cinnamate, cns.	lb.	1.55	- 1.80
Methyl ethyl ketone, dms., c.l., dlvd	lb.	.15	- —
dms., l.c.l., dlvd.	lb.	.16	- —
tanks, dlvd.	lb.	.12½	- —
2-Methyl-5-ethyl pyridine, dms., c.l., works	lb.	.45	- —
dms., l.c.l., works	lb.	.45¾	- —
tanks, works	lb.	.43	- —
Methyl formate, refd., dms.	lb.	.35	- .40
Tech., non-ret. dms., any quantity, works	lb.	.10	- —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs., c.l., works	lb.	.21	- —
100-lb. multiwall paper bgs., t.l., min. 23,000 lbs., works	lb.	.21½	- —
100-lb. multiwall paper bgs., l.t.l., works	lb.	.23	- —
Methyl heptin carbonate, bots	lb.	28.00	-31.00
Methyl p-hydroxybenzoate, fib. dms.	lb.	1.90	- 2.00
Methyl ionone, standard, cns., dms.	lb.	3.85	- —
Methyl isobutyl carbinol (see Methyl amyl alcohol).			

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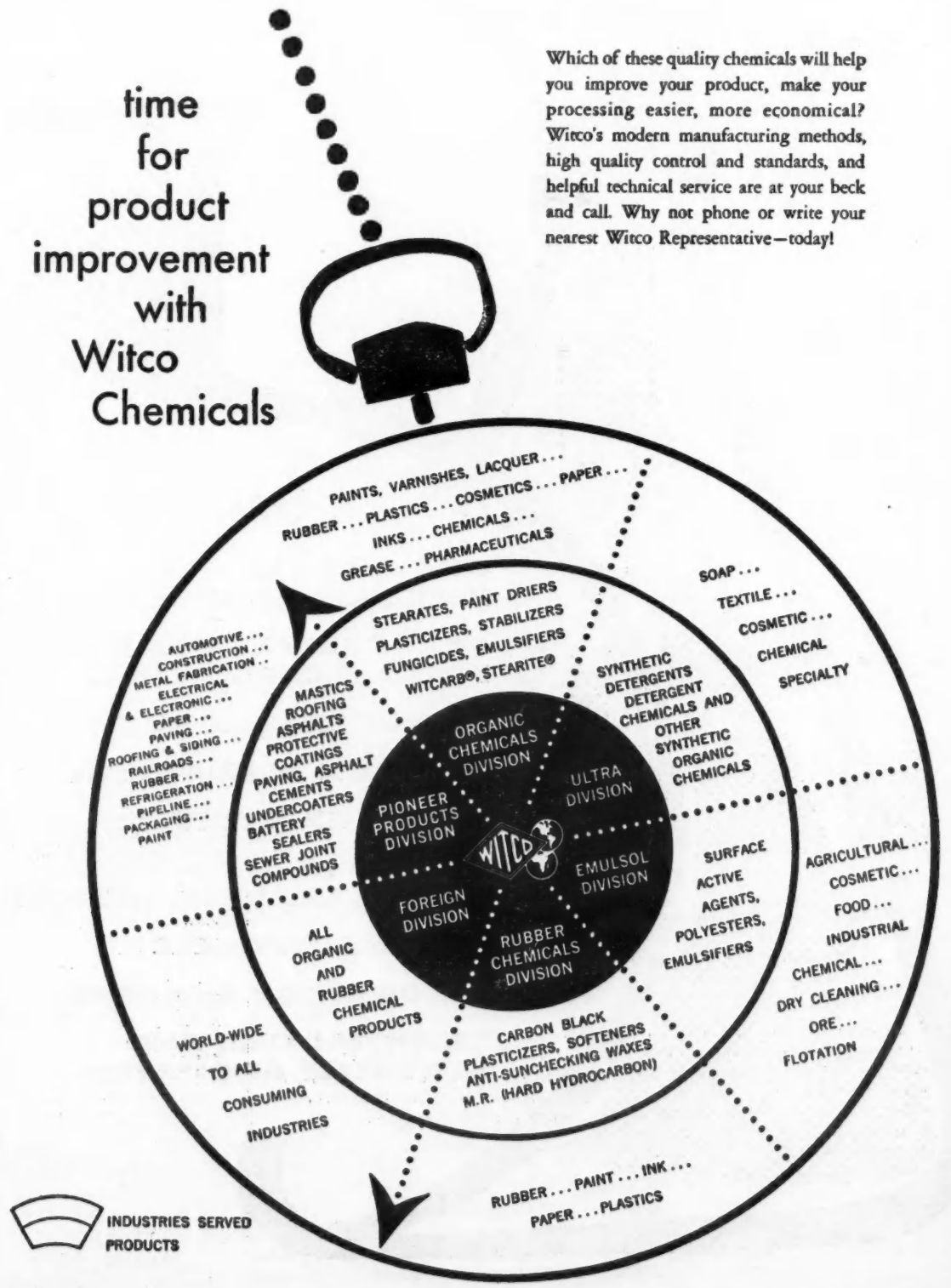

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Methyl Isobutyl Ketone—Naphtha

Methyl isobutyl ketone, dms., c.l., dlvd lb. .17 - —
dms., l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .14½- —
Methyl methacrylate, dms., c.l., t.l., frt. equald, with Belle, W. Va. lb. .31 - —
dms., smaller lots, same basis lb. .31½- —
tanks, same basis lb. .29 - —
Methyl naphthyl ketone, cryst., cns lb. 3.00 - 4.30
Methyl parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Methyl parathion tech., 80%, dms., frt. alld. E lb. 1.12 - —
Methyl parathion prices 2c. per lb. higher in West.
Methyl roseaniline chloride, NF., 5-lb. fib. dms. lb. 6.90 - —
Methyl salicate, USP, cns., 500-lb. lots lb. .62½- .67½
Methyl testosterone, USP, 100-gram bots gram. No Prices.
Methyl violet toner, molybdated, PMA, bbls., dlvd. E. of Rockies lb. 2.80 - —
Methyl violet toner, tungstated, PTMA, bbls., same basis. lb. 4.35 - —
Methyl violet prices 1c. higher W. of Rockies.
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - —

Methylene chloride, tech., straight or assorted, dms., c.l., or t.l. works lb. .14 - —
dms., l.c.l., l.t.l., works lb. .16¾- —
tanks, 4,000-gal. min., tank trucks, maximum load limit, works lb. .12½- —
tanktrucks, 1,000-gal. min., works lb. .13½- —
b-Methylnaphthalene, 32°C., m.p., dms., works lb. .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs. c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb. .03 - —
Mica, wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06½- —
bgs., l.c.l. ex-whse. lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E. lb. .08¼- —
bgs., l.c.l., ex-whse, or freight alld. E lb. .09 - —
rubber, bgs., c.l., works, frt. alld. E lb. .08 - —
bgs., l.c.l., ex-whse. or frt. alld. E lb. .08¾- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .06¾- —
bgs. ex-whse. or frt. alld. E. lb. .09 - —

Mica, wet-grd., wallpaper, white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¾- —
white, 5-10 microns, bgs., c.l., l.c.l., ex-whse., or frt. alld. E. lb. .09 - —
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies 1c. higher.
Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 - .12
Mineral black, bgs., works lb. .0180- .0673
Mineral oil, white, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. refy gal. .63 - —
non-ret. dms., l.c.l., same basis gal. .67 - —
tankcars, refy. gal. .46 - —
65-75 vis., non-ret. dms., c.l., same basis gal. .62 - —
tankcars, refy. gal. .46 - —
80-90 vis., non-ret. dms., c.l., same basis gal. .63 - —
non-ret. dms., l.c.l., same basis gal. .68 - —
tankcars, refy. gal. .47 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .69 - —
non-ret. dms., l.c.l., same basis gal. .74 - —
tankcars, refy. gal. .53 - —
145-155 vis., non-ret. dms., c.l., same basis gal. .75 - —
non-ret. dms., l.c.l., same basis gal. .80 - —
tankcars, refy. gal. .59 - —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .77 - —
non-ret. dms., l.c.l., same basis gal. .82 - —
tankcars, refy. gal. .61 - —

Mineral oil, white, USP, 200-210 vis., non-ret. dms., c.l., 200-210 vis., non-ret. dms., c.l., f.o.b., New York gal. .84 - —
non-ret. dms., l.c.l., same basis gal. .89 - —
tankcars, refy. gal. .63 - —
300-350 vis., non-ret. dms., c.l., f.o.b. New York gal. .84½- —
non-ret. dms., l.c.l., same basis gal. .89½- —
tankcars, refy. gal. .68½- —
Mineral orange, American, bbls., c.l., works lb. .1760- —
bbls., l.c.l., same basis lb. .1860- —
Mineral spirits, petroleum, odorless, tanks, refy. Watson, Calif. gal. .25 - —
tanks, Borger, Tex. gal. .25 - —
Houston, Tex. gal. .25 - —
Philadelphia gal. .32 - —
Newark gal. .29 - —
New York, dlvd. gal. .30½- —
Wood River, Ill. gal. .2725- —
tankwagon, New Jersey, dlvd. gal. .37½- —
tankwagon, New York, dlvd. gal. .38½- —
Mineral spirits, petroleum, regular, tanks, Calif., ex tax San Francisco gal. .169 - —
tanks, east coast, New Jersey, New York gal. .18 - —
tanks, group 3 gal. .12875- —
tanks, Houston, Tex. gal. .145 - —
tankwagon, Boston gal. .20 - —
Buffalo gal. .20½- —
Chicago gal. .289 - —
Cleveland gal. .23½- —
Newark gal. .19 - —
New York gal. .19 - —
Philadelphia gal. .19½- —
Pittsburgh gal. .19 - —
Providence gal. .20½- —
Mirbane oil (see Nitrobenzene)
MNPT maroon toner, kgs., c.l., works lb. 6.30 - —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .14 - .14½
tanks, New York gal. .16 - —
Molybdated orange, bbls. lb. .48 - —
Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo. 7.84 - —
325 mesh, ctns., works kilo. 9.13 - —
Molybdenum trioxide, pure, dms., works lb. 1.15 - —
Tech., dms., works, basis Mo. content lb. 1.39 - —
Molybdic acid, 85% dms., works lb. 1.20 - —
Monoallylamine, dms., c.l., dlvd lb. .965 - —
dms., c.l., dlvd. lb. .995 - —
tanks, dlvd. lb. .96 - —
Monobutylamine, dms., c.l., dlvd. E. of Rockies lb. .57½- —
dms., l.c.l., same basis lb. .58½- —
tanks, same basis lb. .55 - —
Monochloracetic acid, purif. (see Chloroacetic acid, mono).
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E lb. .10½- —
dms., l.c.l., same basis lb. .11½- —
tanks, same basis lb. .08¾- —
Monoethanolamine, dms., c.l., dlvd. E lb. .27½- —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd. E. 100% basis lb. .38½- —
dms., l.c.l., dlvd. E., 100% basis, lb. .40 - —
tanks, dlvd. E., 100% basis lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidine (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd E lb. .27½- —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .25 - —
Monoisopropylamine, anhyd., dms., c.l., dlvd lb. .33½- —
dms., l.c.l., same basis lb. .34½- —
tanks, same basis lb. .31 - —
Monomethylamine, anhyd., cyls., l.c.l., frt. equald., 100% basis lb. .30 - —
tanks, same basis lb. .26 - —
30-35% soln., dms., c.l., frt. equald., 100% basis lb. .36 - —
dms., l.c.l., frt. equald., 100% basis lb. .36½- —
tanks, frt. equald., 100% basis, lb. .26 - —
40% soln., dms., frt. equald., 100% basis lb. .33 - —
dms., l.c.l., frt. equald., 100% basis lb. .33½- —
tanks, frt. equald., 100% basis, lb. .26 - —
Monopentaerythritol, tech., bgs., c.l., dlvd. E lb. .30 - —
bgs., l.c.l., dlvd. E. lb. .31 - —
Monopotassium glutamate, dms., 1,000-lb. lots, frt. alld. lb. 3.05 - —
dms, 100-lb. lots, same basis lb. 3.25 - —
Monosodium glutamate, dms., any quantity, dlvd lb. 1.07 - —
Monosodium phosphate (see sodium phosphate, monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-butyl-m-cresol).
Montan wax, dom., refd., bgs. lb. .29 - .30
Imp., crude, Bohemian, bgs. lb. .22 - .24
German, bgs. lb. .26 - .27
Morphine, cns. oz. 12.40 -12.60
Morphine acetate, anhyd., cns. oz. 9.95 -10.00
Morphine hydrobromide, cns. oz. 9.90 - 9.95
Morphine hydrochloride, NF, cns oz. 9.90 - 9.95
Morphine sulfate, USP, cns. oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd. E lb. .55¼- —
dms., l.c.l., dlvd. E. lb. .56¼- —
tanks, dlvd. E. lb. .32¾- —
Muriatic acid (see Hydrochloric acid).
Musk, syn., ambrette, fib. dms., 100-lb. lots lb. 4.45 - 5.15
cns., 25-lb. lots lb. 5.05 - 5.65
Ketone, fib. dms., 100-lb. lots lb. 4.70 - 5.30
cns., 25-lb. lots lb. 5.35 - —
Xylol, fib. dms., 100-lb. lots lb. 1.40 - —
cns., 25-lb. lots lb. 1.45 - —
Mustard seed, Danish, yellow, bags. lb. .10¾- —
Montana, yellow, bgs. lb. .10½- —
Montana, No. 1, Oriental, bgs. lb. .08½- —
Mustard oil, syn. bots. lb. 1.60 - 1.85
Mustard seed oil, nat., dms. lb. 9.50 - 9.85
Myristic acid, dms lb. .24 - .26½
tanks lb. .23⅜- —
Myrobalans, Bombay ton. 44.00 -45.00
J-1, genuine, bgs., ex dock ton. 50.00 -51.00
J-1, crushed, bgs., ex dock ton. 65.00 -66.00
Myrobalans, extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .10½- .10¾
Myrrh gum, cs. lb. .50 - .55

N

Naphtha, high solvency (see Solvent naphtha, petroleum).
Naphtha, petroleum, cleaner's, 140°F. flash, tanks, east coast, New Jersey and New York gal. .18 - —
tanks, group 3 gal. .15 - .15½
tanks, Houston, Tex. gal. .19 - —
tankwagon, Newark gal. .19 - —
New York gal. .19 - —
Philadelphia gal. .19½- —

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Naphtha, VM&P, petroleum, 225°-300°F., b.r., tanks, west coast, Los Angeles	gal.	.174	—
Portland, Ore.	gal.	.18	—
San Francisco	gal.	.179	—
Seattle, Wash.	gal.	.18	—
east coast, New Jersey and New York	gal.	.19	—
group 3	gal.	.13375	—
Naphtha, VM&P, petroleum, tank-wagon, Boston	gal.	.21½	—
Chicago	gal.	.299	—
Cleveland	gal.	.24½	—
Houston, Tex.	gal.	.15½	—
Newark	gal.	.20½	—
New York	gal.	.20½	—
Philadelphia	gal.	.21½	—
Pittsburgh	gal.	.20	—
Naphthalene, crude, dom., 74°, tanks, frt. equald	lb.	.06¼	—
78°, bgs., c.l., same basis	lb.	.07½	.08
bgs., l.c.l., same basis	lb.	.07¾	.08¼
tanks, same basis	lb.	.07	—
Imp., 78°, bgs., large lots	lb.	.04	—
Refd., indust., chipped, crushed, bgs., frt. equald	lb.	.12½	—
tanks, same basis	lb.	.11¾	—
Naphthalene, refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis	lb.	.15½	—
cs., 50 lbs., c.l., same basis	lb.	.15¾	—
1-lb. pkgs., c.l., same basis	lb.	.18½	—
a-Naphthol, bbls., frt. alld	lb.	1.00	—
b-Naphthol, tech., flake, bbls., c.l., works	lb.	.33	—
bbls., l.c.l., works	lb.	.35	—
Naphthol, ITR, red toner, bbls., works	lb.	5.50	—
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid).			
1-Naphthol-4 sulfonic acid (see Nevile and Winther's acid).			
1-Naphthol-5-sulfonic acid (see L acid).			
1-Naphthol-5-sulfonic 8-amino acid (see S acid).			
2-Naphthol-6,8-disulfonic acid (see Gamma acid).			
Naphthol sulfonic mixed acid (see Cleve's acid).			
a-Naphthylamine, bbls., frt. alld	lb.	.50	—
b-Naphthylamine, tech., flake, bbls., works	lb.	1.60	—
1-Naphthylamine-5-sulfonic acid (see Laurent's acid).			
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).			
2-Naphthylamine-1-sulfonic acid (see Tobias acid).			
2-Naphthylamine-6-sulfonic acid (see Broenner's acid).			
2-Naphthylamine-7-sulfonic acid (see F acid).			
Naringin, fib. dms	lb.	8.50	—
Neatsfoot oil, 15° cold test, dms.	lb.	.30	.33
20° cold test, dms.	lb.	.29	.32
30° cold test, dms.	lb.	.28	.31
Neocinchophen, USP, dms., frt. adjusted	lb.	7.00	8.00
Neomycin sulfate, fib. dms., 1-kilo basis activity	gram.	.35	—
fib. dms., 100-999-gram lots, basis activity	gram.	.40	—
Neroli oil, NF, French, bots.	lb.	350.00	375.00
Tunisian, bots.	lb.	400.00	—
Nerolin, cns.	lb.	2.55	2.85
Nevile and Winther's acid, dms., frt. alld	lb.	1.30	—
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd	lb.	.68½	.75½
Nickel carbonate, bbls., dlvd	lb.	.78¼	.85¼
Nickel chloride, bbls., dlvd	lb.	.37	.45
Nickel formate, bbls., ton lots, frt. alld	lb.	.72	.73
Nickel metal electro cathodes, cs., works	lb.	.74	—
Nickel nitrate, bbls., works	lb.	.32½	.33½
Nickel oxide, black, bbls	lb.	.85	—
Green, bbls.	lb.	.84	—
Nickel sulfate, bgs., c.l., dlvd	lb.	.28	—
bgs., l.c.l., dlvd	lb.	.28½	.38
Nicotinamide, USP, dms., frt. adjusted	kilo.	9.50	9.80
Nicotinamide hydrochloride, dms., frt. adjusted	kilo.	9.50	9.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld	lb.	1.20	—
40%, manufacturers, 500-lb. dms., frt. alld	lb.	1.05	—
Nicotinic acid, USP, dms., dlvd	kilo.	8.00	8.30
Nicotinic amide, USP (see Nicotinamide).			
Niger seed, bgs	lb.	.10¼	—
Nikethamide, cbys.	lb.	5.00	—
Nitric acid, 36° Be., cbys., c.l., works E.	100 lbs.	5.75	—
cbys., l.c.l., works E	100 lbs.	6.05	6.85
38° Be., cbys., c.l., works, E.	100 lbs.	6.25	—
cbys., l.c.l., works E.	100 lbs.	6.55	7.35
40° Be., cbys., c.l., works, E.	100 lbs.	6.75	—
cbys., l.c.l., works, E.	100 lbs.	7.05	7.85
42° Be., cbys., c.l., works, E.	100 lbs.	7.25	—
cbys., l.c.l., works, E	100 lbs.	7.55	8.35
Nitric acid, 58.5 to 68% HNO_3, tanks, works, 100% basis	100 lbs.	3.90	—
94½ to 95½% HNO_3, tanks, works, 100% basis	100 lbs.	4.90	—
CP, NF, consumer, cbys. extra, c.l., works	lb.	.18½	—
cbys. extra, l.c.l., works.	lb.	.20	—
5-pint bots., extra, cs., c.l., same basis	lb.	.22½	—
5-pint bots., extra, cs., l.c.l., same basis	lb.	.24	.25
m-Nitroaniline, cryst., dms., frt. alld	lb.	1.15	—
Paste, dms., frt. alld., 100% basis.	lb.	1.10	—
o-Nitroaniline, flaked, dms., t.l., frt. alld	lb.	.49	—
dms., l.t.l., frt. alld	lb.	.51	—
o-Nitroaniline orange toner, kegs,	lb.	1.35	—
p-Nitroaniline, dms., frt. alld	lb.	.445	—
Nitrobenzene, dbl. dist., dms., c.l., frt. alld	lb.	.13	—
dms., l.c.l., frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11	—
p-Nitrobenzoic acid, dms., c.l., works	lb.	.63	—
dms., l.c.l., works	lb.	.64	—
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works	lb.	.37½	—
bbls., l.c.l., same basis	lb.	.38½	.40½
Ester-soluble, 18-20 cps., bbls., c.l., same basis	lb.	.39½	—
bbls., l.c.l., same basis	lb.	.40½	.42½
Ester-soluble, 250-400, 600-1,000 seconds, bbls., l.c.l., same basis.	lb.	.43	.46
Spirit soluble, 30-35 cps., ¼, ½ seconds, bbls., c.l., same basis.	lb.	.43	—
bbls., l.c.l., same basis	lb.	.44	.46
5-6 cps., 40-60 seconds, bbls., c.l., same basis	lb.	.42	—
bbls., l.c.l., same basis	lb.	.43	.45

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms., c.l., frt. alld	lb.	.15	—
dms., l.c.l., same basis	lb.	.16	—
tanks, same basis	lb.	.13	—
p-Nitrochlorobenzene, dms.	lb.	.26	.27
Nitroethane, dms., c.l., dlvd. E	lb.	.24	—
dms., l.c.l., dlvd. E	lb.	.24½	—
tanks, dlvd. E	lb.	.22½	—
Nitroethane prices West of Rockies are 1c. higher.			
Nitrogen solutions, tanks, frt. equald	unit.	1.14	—
Nitrogenous process tankage, bulk, works	unit-ton.	3.50	4.00
Nitrogenous sewage sludge, bulk, f.o.b. Chicago, works	unit-ton.	3.10	.50
Nitromethane, dms., c.l., dlvd E	lb.	.24	—
dms., l.c.l., dlvd. E	lb.	.24½	—
tanks, dlvd. E	lb.	.22½	—
Nitromethane prices West of Rockies are 1c. higher.			
a-Nitronaphthalene, bbls., frt. alld.	lb.	.31	—
o-Nitrophenol, dms., works, frt. equald	lb.	.94	—
p-Nitrophenol, dms., c.l., frt. alld.	lb.	.51	—
dms., l.c.l., frt. alld	lb.	.53	—
1-Nitropropane, dms., c.l., frt. alld. E. of Rockies	lb.	.22½	—
dms., l.c.l., same basis	lb.	.23¼	—
tanks, same basis	lb.	.21	—
2-Nitropropane, dms., c.l., frt. alld. E. of Rockies	lb.	.18½	—
dms., l.c.l., same basis	lb.	.19½	—
tanks, same basis	lb.	.16	—
Nitropropane prices West of Rockies are 1c. per lb. higher.			

o-Nitrotoluene, dms., c.l., frt. alld.	lb.	.13	—
dms., l.c.l., frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11	—
p-Nitrotoluene, tech., flake or solid, dms., l.c.l., works	lb.	.30	—
m-Nitro-p-toluidine, dms.	lb.	1.43	—
Nonylphenol, dms., c.l., frt. alld.	lb.	.22	—
dms., l.c.l., frt. alld	lb.	.23	—
tanks, frt. alld	lb.	.19½	—
Nonylphenol prices on shipments to Western States are 2c. higher.			
Nutgalls, Aleppo, bgs.	lb.	.35	.38
Chinese, bgs.	lb.	No prices.	
Nutmegs, East Indian, bgs.	lb.	2.40	—
West Indian, bgs	lb.	1.95	—
Nutmeg oil, USP, dist., East Indian, cns.	lb.	11.65	15.75
West Indian, cns.	lb.	11.65	15.75
Nux vomica, bls	lb.	.12	—
Powd., bbls., bxs	lb.	.18	—

O

Ocher (see Iron oxide yellow, nat.).			
Ocotea cymbarum oil, dms	lb.	.45	.93
Octane, indust., tanks, Bayonne, N.J.	gal.	.20	—
Borger, Tex.	gal.	.15¾	—
1-Octanol, tech., dms., c.l., dlvd., Zone 1	lb.	.37	—
dms., l.c.l., dlvd. Zone 1	lb.	.39	—
tanks, dlvd., Zone 1	lb.	.34½	—
Octyl alcohol, perfumers' grade, bots	lb.	1.60	3.23
Octyl alcohol, tech, (see 1-Octanol, tech).			
Octyl phenol, bgs., c.l., works	lb.	.24	—
bgs., l.c.l., works	lb.	.24½	—
tanks, works	lb.	.23	—
Octyl phenol in dms., 11c. higher.			

Oils

Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liq., dms	lb.	.18	.18½
tanks	lb.	.16½	—
Oleic acid, dbl.-dist. (white), dms.	lb.	.18¼	.20¾
tanks	lb.	.15½	—
Single-dist., dms.	lb.	.17	.19½
tanks	lb.	.15¾	—
Oleo oil, extra, dms.	lb.	.17¾	.18
Oleostearine, dms.	lb.	.14	.14½
Oleum (see Sulfuric acid, fuming).			
Olibanum gum, siftings, cs	lb.	.20	Nom.
Tears, cs.	lb.	.22	.30

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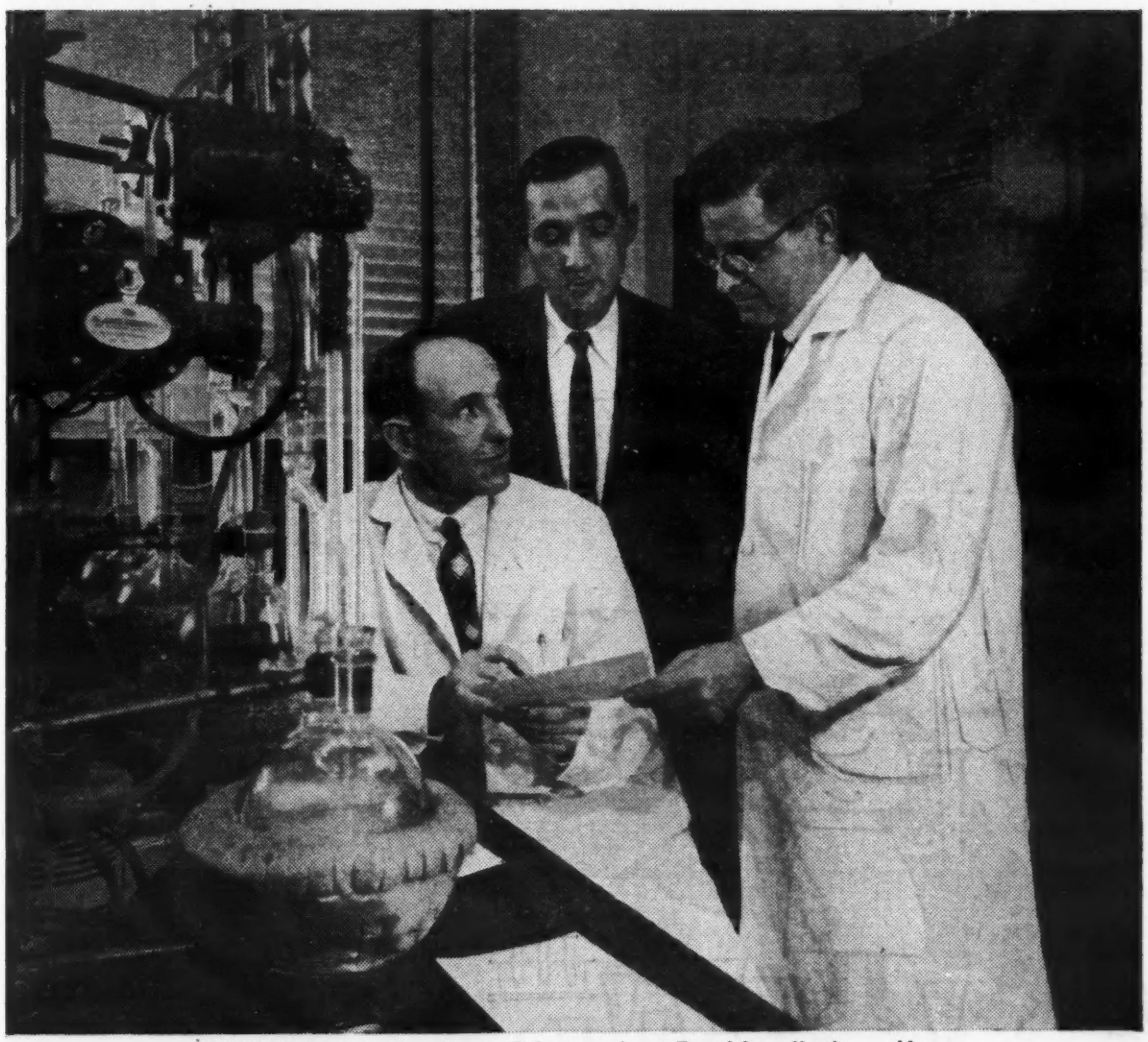

Bill Kraft, Earl Barkley, George Roberts work out Pentek® application problem.

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Olibanum Oil—Petroleum Sulfonate

Olibanum oil, bots. ..... lb. 5.00 - 7.65
Extra fine, bots ..... lb. 8.00 - 9.50
Olive oil, edible, dms., spot, duty-paid ..gal. 2.45 - 2.55
Olivine, crude, works.....ton.12.00 - —
20 mesh, works .....ton.15.00 - —
100 mesh, works.....ton.20.00 - —
Opium, USP, cns .....oz.19.20 -19.45
gran., cns. .....oz.21.65 -21.90
powd., cns. .....oz.21.65 -21.90
Orange oil, expressed, USP, Brazilian, cns., dms lb. No stocks.
California, cns., dms .... lb. 2.25 - 2.35
Florida, csn., dms ..... lb. 1.70 - 2.30
Messina, cns. ..... lb. 3.85 - 5.85
West Indian, cns., dms ... lb. 2.50 - 3.85
Sweet, dist., cns., dms..... lb. .90 - —
Orange peel, bitter, Haitian, bls lb. .14 - .16
Sweet .....lb. .30 - .35

Orange Pigments

Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Origanum oil, Spanish, cns .....lb. 1.80 - 2.30
Orris root, Florentine, bls. ..... lb. .55 - —
powd., bbls., bxs. ..... lb. .68 - —
Verona, bls. .....lb. .35 - .40
powd., bbls., bxs. .....lb. .44 - —
Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid, (see o-Chlorobenzoic acid).
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthocresotinic acid (see 2,3-Creosotic acid).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol).
Orthotolidine (see o-Tolidine base).
Orthotoluidine (see o-Toluidine).
Osage orange, cryst., No. 1, bbls., l.c.l lb. .40 - —
Extract, liq., No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP, bots.....gram 3.00 - 4.00

Ouricury wax, crude, bgs.....lb. .79 Nom.
Refd., pure, bgs.....lb. .90 Nom.
Oxalic acid, bbls., c.l., works...lb. .18½- —
bbls., 10,000-lb. lots, works...lb. .18¾- —
bbls., smaller lots, works..lb. .19¾- —
b-Oxynaphthoic acid, fib dms., 250 lbs. or more, frt. alld., lb. 1.14 - 1.17
Oxyquinolin sulfate, cns., 100-lb. lots, works, lb. 4.75 - 5.00
cns., smaller lots, works.....lb. 4.92 - 5.17

P

Palm oil, clarif., dms .....lb. .14 - .15
tanks .....lb. .11½- —
Palm oil acid, dist., dms.....lb. .15¾- .19¼
tanks .....lb. .13¾- .14¼
Palmarosa oil, cns .....lb. 3.50 - 6.00
Papain, purified .....lb. 8.50 -12.00
Papaverine hydrochloride, nat. or syn., USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
cns., smaller lots .....oz. 5.05 - 5.20
Papaverine sulfate, nat. or syn., USP, cns., oz. 7.10 - 7.35
Paprika, Bulgarian, bgs. ..... lb. .28 - —
Hungarian, bgs. .....lb. .33 - —
Spanish, bgs. .....lb. .37 - .47
Yugoslavian, bgs. .....lb. .36½- —
Para-aminobenzoic acid (see p-Aminobenzoic acid)
Parachlorobenzoic acid (see p-Chlorobenzoic acid).
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).

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Inquiries from countries other than the U.S. and Canada should be directed to the Sunkist Growers, Products Department.

Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls. ..... lb. 1.21 - —
Chlorinated, kgs. ..... lb. 1.35 - —
Paraffin, crude, scale, white, 123°-127°F, ASTM, tanks, refy. lb. .0710- —
Paraffin, fully refd., 122°-124°F, ASTM, tanks, refy .lb. .0815- —
125°-127°F, ASTM, tanks, refy. lb. .0815- —
130°-132°F., ASTM, tanks, refy. lb. .0815- —
132°-134° F., ASTM, tanks, refy. lb. .0815- —
135°-137°F., ASTM, tanks, refy. lb. .0815- —
AMP temperatures are an arbitrary 3°F. higher than ASTM.
Parafin oil, pale, 100-110 vis. at 100°F., tanks, east coast refy. gal. .14 - —
Paraffin wax (see Paraffin).
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld. lb. .0955- —
bgs., l.c.l., frt. alld .....lb. .1155- .1253
91%, powd., bgs. c.l., ex whse. lb. .167 - —
bgs., l.c.l., ex whse .....lb. .182 - —
USP-X, fib. dms., c.l. .....lb. .19 - —
fib. dms., 1,000-lb. lots.....lb. .20 - —
fib. dms., smaller lots .....lb. .21½- —
Paraldehyde, tech., 98%, 55-gal. dms., t.l., dlvd lb. .14 - —
55-gal. dms., l.c.l., dlvd. lb. .15 - —
tanks, dlvd .....lb. .11½- —
Paranitroaniline (see o-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene.
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, ethyl, dms., c.l. frt. alld. lb. 1.36 - —
dms., l.c.l., frt. alld. .....lb. 1.41 - —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide).
Paris green, dealers, 100 lb. dms., frt. alld. lb. .45 - —
Passion flower herb, bls. ..... lb. No stocks.
Patchouli oil, dms. ..... lb. 4.25 - 5.75
Peach kernel oil, USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb., bbls., dlvd. E. of Rockies lb. 1.00 - —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, 45%, old process, bgs., mills ton.62.00 -64.00
Peanut oil, crude, tanks, f.o.b. mills. lb. .15¾- —
Refd., dms. .....lb. .21¼- .21½
tanks .....lb. .19¼- —
Pectin, dom., NF, citrus, powd., bbls. lb. 2.05 - 2.06
tech., powd., 150 jelly grade. lb. 1.28 - —
Imp., Danish, ex whse .....lb. 1.28 - —
Penicillin potassium, cryst., bulk. 1,000,000 units. .04750- .0550
Penicillin, procaine, bulk 1,000,000 units. .050 - .0550
Penicillin, sodium, bulk 1,000,000 units. .0550- .060
Pennyroyal oil, USP, imported, cns. lb. 2.30 - 3.10
Pentachlorophenol, bgs., c.l., t.l., works, frt. equald .lb. .22 - —
bgs., l.c.l., same basis .....lb. .23½- .30
Pentachlorophenol in dms. 1c. higher.
Pentaerythritol, tech., bgs., c.l., dlvd .lb. .29½- —
bgs., l.c.l., dlvd .....lb. .30½- —
Pentaerythritol, di- and tri- isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks, Tex. refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more .lb. 6.00 - —
Pepper, Malabar black, bgs. ....lb. .24¾- —
Lampong, black, bgs. .....lb. .24¾- —
Sarawak, black, bgs. .....lb. .24½- —
Red, Funtuas, bgs. .....lb. .33 - —
Gondars, bgs. .....lb. .30 - —
Japanese, Hontaka, bgs.....lb. .27 - —
Santaka, bgs. .....lb. .25 - —
Sudanese, bgs. .....lb. .34 - —
Zanzibar, bgs. .....lb. .43 - —
White, Muntok, bgs. .....lb. .37 - —
Peppermint leaves, dom., USP, bls., dms. .lb. .70 - .75
Imp., USP., bls .....lb. .85 - —
Peppermint oil, nat., dms.....lb. 4.25 - 6.25
Redist., USP, dms .....lb. 4.60 - 5.95
Perchloroethylene, dms., c.l. or t.l., dlvd. .lb. .13½- —
dms., l.c.l., dlvd .....lb. .15¼- —
tanks, dlvd. .....lb. .11¾- —
tanktruck, 1,000 gal. min. dlvd. lb. .12¼- —
Peri acid, dry bbls. frt. alld. ....lb. 1.35 - —
Paste, bbls., frt. alld.....lb. 1.30 - —
Peru balsam, dms .....lb. 1.30 - 1.95
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil, South American, cns., dms .lb. 2.40 - 2.95
Petrolatum, cream, dms., c.l., refy. lb. .07¾- —
dms., l.c.l., dlvd.....lb. .10½- —
tanks, refy. .....lb. .05½- —
Extra amber, dms., c.l., refy..lb. .06¾- —
dms., l.c.l. dlvd.....lb. .09½- —
tanks, refy. .....lb. .04½- —
Petrolatum, lily white, dms., c.l., refy..lb. .08½- —
dms., l.c.l., dlvd.....lb. .10½- —
tanks, refy. .....lb. .05⅞- —
USP, snow white, dms., c.l., refy. lb. .08¾- —
dms., l.c.l., dlvd.....lb. .11 - —
tanks, refy. .....lb. .06¾- —
USP, soft yellow, dms., c.l., refy. lb. .06¾- —
dms., l.c.l., dlvd.....lb. .09¼- —
tanks, refy. .....lb. .04½- —
Petroleum pitch (see Asphalt, petroleum).

Petroleum Products

Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works .lb. .16½- .16¾
non-ret. dms., l.c.l., works.lb. .17½- .19
tanks, works .....lb. .14½- .17

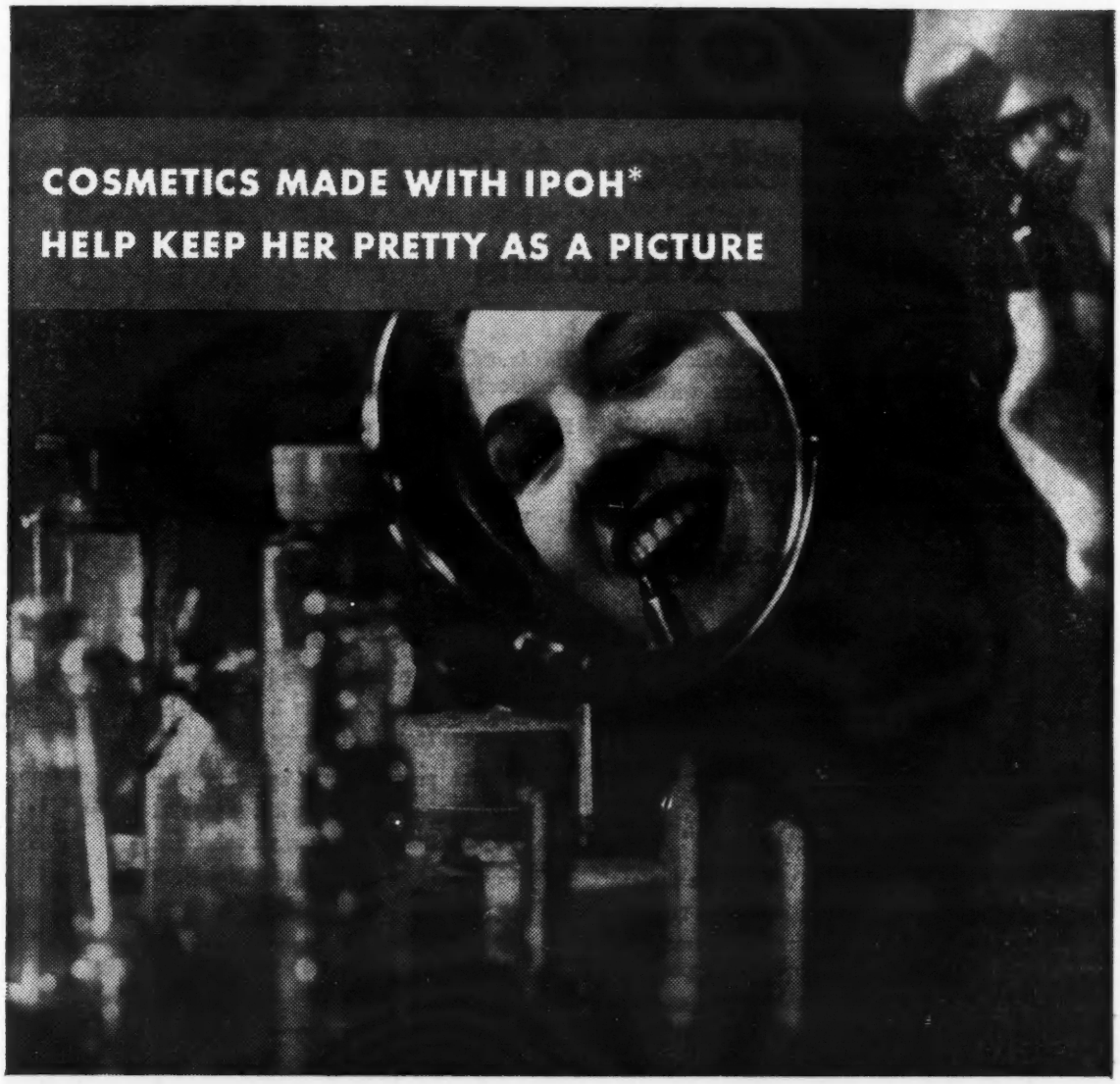
Petroleum sulfonate, oil soluble, 50-55%, sulfonic content, non-ret. dms., c.l., works. lb. .16 - —
non-ret. dms., l.c.l. works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms. c.l., frt. alld. E lb. .91 - —
dms., l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms., same basis lb. 1.08 - —
Phenobarbitol, USP, dms., 100-lb. lots lb. 3.25 - —
Phenobarbital-Sodium (See sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%), non-ret. dms., frt. alld. E of Rockies lb. .18 - —
non-ret. dms., l.c.l., same basis. lb. .19 - —
tanks, same basis lb. .16 - —
82-84% (cresol 16-18%), non-ret, dms., c.l., same basis lb. .17½- —
non-ret. dms., l.c.l., same basis. lb. .18½- —
tanks, same basis lb. .15½- —
39°C. or above, tar distilled non-ret. dms., c.l., same basis lb. .19½- —
non-ret. dms., l.c.l., same basis. lb. .20½- —
tanks, same basis lb. .17½- —
Phenol, USP, syn., dms., c.l., t.l., frt. alld lb. .20½- —
dms., same basis lb. .21¼- —
tanks, same basis lb. .18¼- —
Phenolphthalein, USP or yellow, fib. dms., 2,000-lb., lots lb. 1.30 - 1.32
fib. dms., smaller lots lb. 1.32 - 1.37
Phenothiazine drench, fib. dms., t.l., dlvd lb. .44 - —
fib. dms., l.t.l., same basis lb. .47 - —
NF, fib. dms., t.l., same basis lb. .43 - —
fib. dms., l.t.l., same basis lb. .46 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol)
Phenylacetaldehyde, soln., 50%, bots lb. 2.95 - —
100%, bots. lb. 4.00 - 4.65
Phenylacetic acid, pure, cryst., cns. lb. 1.25 - 1.75
dl-Phenylalanine, dms. works lb. 27.00 -37.50
l-Phenyl-3-carbethoxy pyrazolone-5, fib. dms. 200-lb. lots dlvd. E. lb. 3.45 - —
fib. dms., smaller lots, dlvd. E lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .41 - —
dms., l.c.l., dlvd. E lb. .42 - —
tanks, dlvd. E lb. .38½- —
m-Phenylenediamine, dms., frt. alld. lb. 1.10 - —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80
p-Phenylenediamine, refd., dms., works lb. 1.42 - —
Tech., dms., works lb. 1.40 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
dms., l.c.l., same basis lb. .76¼- —
Phenylethyl acetate, bots. lb. 1.30 - 1.60
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
dms., smaller lots works lb. 1.15 - 1.40
2-Phenylethyl alcohol, extra, dms. lb. 1.14 - 1.50
Standard, dms. lb. 1.10 - 1.60
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine, 97%, 450-lb. dms. lb. 1.45 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd. E lb. 1.80 - —
fib, dms., smaller lots, dlvd. E lb. 2.10 - —
Phenylethylphenyl acetate, bots. lb. 4.00 - 4.25
o-Phenylphenol, dms., l.c.l., works. lb. .48 - .50
p-Phenylphenol, bgs., c.l., works lb. .38½- —
bgs., l.c.l., works lb. .43 - —
Philippine copal gum, pale, chips, bgs lb. .23¾- .26
nubs, bgs. lb. .33¼- .37
seeds, bgs. lb. .20 Nom.
sorts, bgs. lb. .22¾- .25
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
CP, bots., works lb. 17.75 - —
Tech., fib, dms., works lb. 10.45 - —
Phloxin red toner (see Eosin red toner).
Phosgene, ret. cyls., works lb. .15½- —
Phosphate defluorinated (see under D).
Phosphate rock, Curacao, Atlantic ports, New Orleans ton. 48.00 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines. long-ton. 5.16 - —
68-70%, b.p.l., bulk, c.l., same basis long-ton. 5.56 - —
70-72%, b.p.l., bulk, c.l., same basis long-ton. 6.21 - —
74-75%, b.p.l., bulk, c.l., same basis long-ton. 7.21 - —
76-77%, b.p.l., c.l., bulk, same basis long-ton. 8.21 - —
Above Florida prices are based on fuel oil at $2.37 per bbl. and labor at $1.52.
Phosphoric acid, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 7.00 - —
cbys., l.c.l., same basis. 100 lbs. 7.25 - 7.75
tanks, t.w., works 100 lbs. 5.60 - —
80%, cbys., c.l., frt. equald 100 lbs. 7.85 - —
cbys., l.c.l., works 100 lbs. 8.10 - 9.35
tanks, t.w., works 100 lbs. 6.00 - —
NF, 85%, cbys., c.l., works. 100 lbs. 8.50 - —
cbys., l.c.l., works 100 lbs. 8.75 - 9.00
tanks, t.w., works 100 lbs. 6.65 - —
Phosphorus, amorph., red, dms., t.l., works lb. .55 - —
dms., smaller lots, works lb. .56 - .57
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
dms., l.c.l., works, frt. equald lb. .21¼- —
tanks, works, frt. equald lb. .19 - —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phosphorus pentasulfide, powd., dms., c.l., works lb. .13½- —
dms., l.c.l., works lb. .14½- .15½
solid, dms., c.l., works lb. .11½- —
dms., l.c.l., works lb. .12½- .13½
Phosphorus pentoxide, dms., c.l., works lb. .1395- .1450
dms., l.c.l., works lb. .1550- .1650
Phosphorus sesquisulfide, dms., cs., c.l., works lb. .38 - —
dms., l.c.l., works lb. .39 - .40
Phosphorus trichloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .21 - —
bgs., l.c.l., same basis lb. .22 - —
tanks, same basis lb. .20½- —
Phthalimide, 97-98%, dms., frt. alld lb. .33 - —
Phthalocyanine blue, full strength, bbls., dlvd. E. of Rockies lb. 2.90 - —
Resinated, bbls., same basis lb. 2.75 - —
Water dispersable, bbls., same basis lb. 1.52 - —
Pythalocyanine blue prices 1c. higher W. of Rockies.
Phthalocyanine green toner, bbls., works lb. 3.35 - —
Phthalocyanine green toner, resinated, bbls lb. 3.00 - —
Water dispersable, bbls. lb. 1.71 - —
Phthalocyanine green prices 1c. higher W. of Rockies.
Phthalylsulfacetamide, fib. dms., 1,000-lb. lots or more lb. 5.00 - —
NF, fib. dms. lb. 5.20 - —
a-Picoline, dms., c.l., works, frt. equald lb. .43 - .43½
dms., l.c.l., works, frt. equald lb. .44 - —
tanks, same basis lb. .415 - .422
b,g-Picoline, 5°C. dms., c.l., works. lb. .32½- —
dms., l.c.l., works lb. .33 - —
g-Picoline, tanks, f.o.b., works lb. 1.50 - —
dms., t.l., same basis lb. 1.60 - —
Picric acid, NF, bbls. lb. .85 - —
Tech, bbls. lb. .44 - —
Pigment green B, kgs. lb. 1.45 - —
Pilocarpine hydrochloride, USP bots oz. 4.75 - 5.25
Pilocarpine nitrate, USP, bots., vials. oz. 4.65 - 4.75
Pimento, Jamaican, bgs. lb. .65 - —
Mexican, bgs. lb. .33 - —
Pimento berry oil, NF, dms. lb. 3.75 - 9.25
Pimento leaf oil, cns. lb. 1.90 - 2.60

Petroleum Sulfonate—Polyoxyethylene Sorbitan Tristearate

Pine oil, dest.-dist., dms., l.c.l. works lb. .13 - —
dms., l.c.l. ex whse. New York. lb. .173 - —
Steam-dist., dms. ex whse. New York lb. .185 - —
dms., dlvd. lb. .188 - —
Pineneedle oil, Siberian (see Abies Siberica oil)
Pinetar oil, coml., dms., c.l., works. lb. .0561- —
dms., l.c.l., works lb. .0634- —
dms., c.l., ex whse. New York. lb. .0745- —
tanks, works lb. .046 - —
Rectified, NF, dms., included, l.c.l., works, South lb. .40 - —
dms., incl. l.c.l., ex whse., New York lb. .41½- —
Refd., dms., incl., l.c.l., works lb. .35 - —
dms., incl. l.c.l., ex whse. New York lb. .36½- —
Pink root, bls. lb. 2.50 - —
Piperazine, dry, dms., t.l., frt. alld. lb. 1.95 - —
dms., l.c.l., same basis lb. 2.00 - —
Piperazine citrate, 36%, dms., t.l., frt. alld lb. 1.07 - —
dms., l.t.l., same basis lb. 1.09 - —
Piperazine hexahydrated, 44%, dms., frt. alld lb. .88 - —
dms., l.t.l., same basis lb. .90 - —
Piperidine, dist., 98% min., dms., frt. equald lb. 2.70 - —
Piperonyl butoxide, dms., dlvd. E lb. 4.50 - 5.05
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 54.50 -60.00
Pleurisy root, bls. lb. .45 - .50
Podophyllum resin, NF, dms. lb. 15.60 -16.10
Poke root, bls. lb. .19 - .22
Polymyxin, bulk, bots., 50 billion units or more 1,000,000 units. .52 - —
bulk, bots., 25-50 billion units. 1,000,000 units. .54 - —
bulk, bots., 1-25-billion units. 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms. 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works. lb. .44 - —
dms., smaller lots, works lb. .47 - .49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works. lb. .42 - —
dms., 10,000-20,000-lb. lots, works lb. .44 - —
dms., smaller lots, works lb. .47 - .49

Pitches

Pitch quotations are listed individually. For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.



ISOPROPYL ALCOHOL

Many cosmetics . . . and perfumes, too . . . may be formulated with Isopropyl Alcohol. This versatile Enjay product is free of denaturants and, when used in the production of cosmetics, is not subject to restrictive government regulations.

You can depend on Enjay to supply your requirements of Isopropyl Alcohol *in any quantity*. Enjay also offers a complete line of petrochemicals for industrial use.

*Isopropyl Alcohol

ENJAY COMPANY, INC., 15 West 51st Street, New York 19, N.Y.
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ENJAY

Pioneer in Petrochemicals

FOR COMPLETE INFORMATION on specifications and performance characteristics of Isopropyl Alcohol, and many other high quality petrochemicals, contact the nearest Enjay office. Shipments will be made from conveniently located distribution points in tank car, truck, or 55 gal. drum quantities.

Pontianak Copal Gum—Pyrethrins

Pontianak copal gum, chips, bgs. lb. .26 - —
Nubs, bgs. lb. .37 - .40
Poppy seed, Argentine, bgs. lb. No stocks.
Dutch, bgs. lb. .23 - —
Danish, bgs. lb. No stocks.
Polish, bgs. lb. .33 - —
Turkish, bgs. lb. No stocks.
Potash, caustic, liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
dms., l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
Flake, 88-92%, dms., c.l., same basis 100 lbs. 9.15 - —
dms., l.c.l., same basis 100 lbs. 10.20 - —
Solid, 88-92%, dms., c.l., works. 100 lbs. 8.70 - —
dms., l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms. lb. .31 - .36
Potassium bicarbonate, USP, gran. dms lb. .22 - —
USP, powd., dms. lb. .24 - —
Potassium bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
bgs., l.c.l., works lb. .18½- .19¼
Potassium bichromate in dms., ¾c. higher.
Potassium bitartrate, dom., NF, gran. or powd., dms., c.l lb. .40 - —
dms., 5,000 lbs., 1 shipt. lb. .40½- —
dms., smaller lots lb. .41 - .43
Imp., NF, gran. or powd., kgs. lb. .30 - .34
Potassium bromate, dms., 1,000-lb. lots or more, works lb. .50 - —
dms., smaller lots, works lb. .52 - .62
Potassium bromide, USP, gran., bbls., kgs lb. .39 - .40
Potassium carbonate, dom., NF, gran., bbls., dms lb. .20 - —
Potassium carbonate, dom., tech., powd., bbls., dms. lb. .21 - .22
calcined, bgs., c.l., works 100 lbs. 8.50 - —
bgs., l.c.l., same basis 100 lbs. 9.55 - —
Potassium carbonate, hydrated, 83-85%, bgs., c.l., works. 100 lbs. 7.10 - —
bgs., l.c.l., works 100 lbs. 8.15 - —
Potassium chlorate, cryst., dms., c.l., works lb. .12¼- —
dms., l.c.l., works lb. .13½- .14½
Powd., dms., c.l., works lb. .12¾- —
dms., l.c.l., works lb. .14 - .15
works lb. .12¼- —
Potassium chlorate, NF, cryst., dms., 2,000 lbs. or more, works. lb. .16¾- —
gran., 25-lb. metal dms. lb. .36 - —
powd., dms., 2,000 lbs. or more, works lb. .17¼- —
Potassium chloride, agricultural (see Potassium muriate)
Indust., 99.5% KCL, bulk, c.l., works ton. 29.00 - —
bgs., c.l., works ton. 33.50 - —
99.3% KCL, bulk, c.l., works. ton. 27.00 - —
bgs., c.l., works ton. 31.50 - —
USP, cryst., dms. lb. .20 - .22
gran., dms. lb. .21 - .23
powd., dms. lb. .24 - .26
Potassium chromate, tech., bgs. lb. .50 - .50½
Potassium citrate, USP, gran., dms. lb. .43 - —
Powd., dms. lb. .40½- .41½
Potassium cyanide, dms. 20,000-lb. lots or more, works lb. .42½- —
Potassium cyanide, dms., 2,000-19,999-lb. lots, works lb. .43 - —
dms., smaller lots, works lb. .44 - .44½
Potassium dichromate (see Potassium bichromate)
Potassium ferricyanide, dms., ton lots, works lb. .50 - —
dms., smaller lots, works lb. .65 - —
Potassium ferrocyanide, dms., ton lots lb. .24½- —
dms., smaller lots lb. .29 - —
Potassium fluoborate, fib. dms., c.l., works lb. .30 - —
fib. dms., l.c.l., works lb. .31 - —
Potassium fluoride, dms., works lb. .37 - .38
Potassium gluconate, dms. lb. 1.67 - —
Potassium guaiacol sulfonate, NF, dms lb. 2.10 - 2.30
Potassium hydroxide, tech. (see Potash caustic).
Potassium hydroxide, USP, pellets, 100-lb. dms., 1 to 100-dm. lots lb. .33½- .38
Potassium hypophosphite, NF, fib. dms., 1,000-lb. lots lb. 1.38 - —
Potassium iodide, USP, cryst., or gran lb. 1.40 - —
Potassium manure salt, 22% K₂O, bulk, c.l., works unit-ton. .17 - .1765
Potassium metabisulfite, gran., dms. lb. .16 - —
Powd., dms. lb. .27 - —
Potassium muriate, standard, bulk, c.l., works unit-ton. .31 - .33
bagged, 60% minimum K₂O, same basis ton. 23.50 -24.70
Gran., bulk, c.l., works unit-ton. .31½- .33½
bagged, 60% minimum K₂O, same basis ton. 23.80 -25.00

Inside prices apply to material contracted for prior to July 1, 1958.

Outside prices apply to material contracted for after that date but also for delivery during the current month.

Potassium nitrate, NF, cryst., bbls., 20-ton lots 100 lbs. 16.50 - —
bbls., smaller lots 100 lbs. 17.50 -16.00
gran., bgs., 20-ton lots 100 lbs. 9.25 - —
bgs., smaller lots 100 lbs. 10.50 -11.00
powd., bgs., 20-ton lots 100 lbs. 10.25 - —
bgs., smaller lots 100 lbs. 11.50 -12.00
Potassium oxalate, neutral, tech., fine gran., bbls., dms lb. .32 - .34
Potassium pentaborate, gran., dms., c.l., works ton. 219.50 - —
dms., ton lots, ex whse. ton. 311.00 - —
dms., smaller lots, ex whse. ton. 316.00 - —

Powdered potassium pentaborate $10 per ton higher.

Potassium perchlorate, dms., c.l., works lb. .18½- —
dms., l.c.l., works lb. .19 - .20
Potassium permanganate, coml., kgs., works lb. .26 - .29
USP, dms., works lb. .29¼- .31
Potassium persulfate, dms., c.l., works lb. .17½- —
dms., l.c.l., works lb. .18 - .21
Potassium pyrophosphate, tetrabasic, dms., works lb. .15½- .18¼
Potassium prussiate red (see Potassium ferrocyanide).
Potassium prussiate yellow (see Potassium ferro-cyanide).
Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works. 100 lbs. 5.95 - —
dms., l.c.l., 5 dm. lots or more works 100 lbs. 6.70 - —
tanks, works 100 lbs. 5.60 - —
Potassium silicate, glass grade, bgs., c.l., works 100 lbs. 17.30 -18.15
bgs., l.c.l., works 100 lbs. 17.80 - —
Soln., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 4.95 - —
dms., l.c.l., 5-dm. lots or more, works 100 lbs. 5.70 - —
tanks, works 100 lbs. 4.60 - —
Potassium silicofluoride, bgs., works lb. .09½- .10

Potassium silicofluoride in drums, 0.4c. per lb. higher.

Potassium stannate, dms., frt. alld. E lb. .758 - .831
Potassium sulfate, agricultural, bulk, c.l., works unit-ton. .59½- .61½

Inside price applies to tonnage contracted for prior to July 1, 1958.

Outside price applies to tonnage contracted for after that date but also for delivery during the current month.

Potassium sulfate, NF VII, cryst., dms lb. .31 - .33
Gran., dms. lb. .18½- —
Powd., dms. lb. .16 - 17
Potassium sulfocyanate, NF, cryst. (see Potassium thiocyanate).
Potassium thiocyanate, NF, cryst., dms., works lb. .96 - .98
Tech., dms., works lb. .77 - .79
Potassium titanate, ctns., c.l., works. lb. .16¼ - —
ctns., 5-ton lots, works lb. .16½- —
ctns., 1-ton lots or less, works lb. .16¾- —
Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk, works, base price ton. 13.45 - —
bulk, works, July forward ton. 14.00 - —
Potassium-sodium tartrate, NF, gran. cr powd., dms., f.o.b. works lb. .42½- —
dms., 5 000-lb. lots, same basis lb. .43 - —
dms., smaller lots, same basis lb. .43½- .49
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, f'b. dms., c.l., works lb. .50 - —
fib. dms., l.c.l., works lb. .52½- .55
Potato starch (see Starch, potato).
Pregnenolone, bots. gram. No prices
Pregnenolone acetate, bots. gram. No prices
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.83 - —
dms., 100-500 lb. lots lb. 2.95 - 3.15
Progesterone, USP, bots. gram. No prices.
Progesterone acetate, bots. gram. No prices.
Propane, indust., tanks, group 3. gal. .05 - —
tanks, Baton Rouge gal. .05375- —
tanks, New York harbor gal. .1005- —
(¼c. discount offered).
Propenyl guaethol, dms. lb. 24.30 -27.00
Propionic acid, syn., pure, dms., c.l., works lb. .23¼- —
dms., l.c.l., works lb. .24¼- —
tanks, works lb. .20¾- —
n-Propyl acetate, dms., c.l., dlvd. lb. .14¾- —
dms., l.c.l., dlvd. lb. .15¾- —
tanks, dlvd. lb. .12¼- —
n-Propyl alcohol, dms., c.l., dlvd lb. .14 - —
dms., l.c.l., dlvd. lb. .15 - —
tanks, dlvd. lb. .11½- —
n-Propyl gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
n-Propyl p-Hydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propyl thiouracil, bots., 50 kilo lots or more kilo. 55.00 - —
bots., smaller lots kilo. 55.10 -55.30
n-Propylamine, dms., c.l., dlvd lb. 1.24 - —
dms., l.c.l., same basis lb. 1.25 - —
Propylene dichloride, consumers' dms., c.l., dlvd. E lb. .0845- —
dms., l.c.l., same basis lb. .0850- —
tanks, same basis lb. .07 - —

Propylene dichloride prices in West 1c. higher, same basis.

Propylene glycol, indust., dms., c.l., dlvd. E lb. .16 - —
dms., l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½- —
USP, dms., c.l., dlvd. E lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .15½- —
Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Propylene oxide, dms., c.l., dlvd. E. lb. .18 - —
dms., l.c.l., dlvd. E lb. .19 - —
tanks, dlvd. E lb. .15½- —
Psyllium seed, black, bgs. lb. .32 - .34
Blonde, bgs. lb. .16 - .18
Husks, bgs. lb. .39 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝- .04¼
bgs., smaller lots lb. .03⅞- —
Imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½- —
fine, bgs., ton lots lb. .04 - —
sun-dried, coarse, bgs. ton. 60.00 - —
fine, bgs. ton. 60.00 -70.00
Pumpkin seed, bgs. lb. .25 - .26
Pyrethrins, syn. (see Allethrin).

What Blockson Service Means

In Texas, New England, beyond the Rockies... you'll find Blockson customers within a stone's throw from some local phosphate source. Ask any of them why they favor Blockson and you get pretty much the same answer.

"Blockson ships us the phosphates when we want them."

A typical phone call to Blockson shows you what they mean:

An East Coast buyer phones collect to order a mixed car of phosphates, and includes Sodium Silicofluoride and Sodium Fluoride in the car.

"How soon can I get that car?"

"Hold the phone...We'll move the car for you tomorrow — usual routing. We'll wire the car number and trace it... You can look for it Thursday."

This is ordinary routine at Blockson, but it is extraordinary in two important particulars.

FIRST: *At our end, the entire sales, service and traffic operation was handled on the buyer's first and only phone call. There was no cross correspondence, no branch-to-home-office time lag.*

SECOND: *The buyer talked only to one man. This man has the job of taking the red tape out of sales, service and shipping.*

Incidentally, if the buyer had phoned to change, add to, or re-route his order, he would get the same spot service.

Such routine promptness in speeding your chemicals to you is almost without parallel in a company that does so large a volume as Blockson. That's because we use organization to clear the decks instead of cluttering them.

We can put this organization to work for you. Try us.

BLOCKSON IS A MAJOR PRODUCER OF:

- Sodium Tripolyphosphate
- Tetrasodium Pyrophosphate
- Trisodium Phosphate Crystalline • Monohydrate
- Trisodium Phosphate Chlorinated
- Disodium Phosphate Crystalline • Anhydrous
- Monosodium Phosphate Anhydrous • Monohydrate
- Sodium Polyphos*
- Sodium Acid Pyrophosphate
- Tetrapotassium Pyrophosphate
- Sodium Fluoride
- Sodium Silicofluoride
- Hygrade Fertilizer
- C-29 Sequestering Agent
- Teox 120 (Nonionic Surfactant)
- Hydrofluoric Acid
- Sulfuric Acid

*Sodium Hexametaphosphate—Sodium Tetraphosphate

OLIN MATHIESON CHEMICAL CORPORATION · BLOCKSON

BLOCKSON CHEMICAL COMPANY • Joliet, Ill.
Division of Olin Mathieson Chemical Corporation

WAREHOUSE STOCKS AT ALL BLOCKSON DISTRIBUTORS

Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works	lb.	.45	—
Powd., 1.3% pyrethrins, bbls., works	lb.	.65	—
Pyrethrum liquid, 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works	gal.	8.75	- 8.95
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works	gal.	41.75	-42.75
Pyrethrum oleoresin, dewaxed, 20%, dms., works	lb.	10.00	—
purif, 20% dms., works	lb.	10.00	-10.10
Pyridine, denat., dms. c.l., works and frt. equald	gal.	2.77	—
dms. l.c.l., same basis	gal.	2.80	—
Refd., 2° non-ret. dms., l.c.l., same basis	lb.	.75	—
Pyridoxine hydrochloride, bots., 500-gram lots or more	kilo.	218.00	—
Pyrites, Canadian, 48-50% S, mines, long-ton		5.00	- 6.00
Pyrocatechol (see Catechol)			
Pyrogallic acid, NF (see Pyrogallol).			
Pyrogallic acid, tech., bbls.	lb.	3.17	- 3.25
Pyrogallol, NF, 100 lb. dms.	lb.	3.50	—
Pyroxylin, USP, bots.	lb.	9.50	—

Q

Quassia chips	lb.	.17	—
Quebracho extract, clarified, grd., 70% tannin, bgs., works	lb.	.16½-	.17
Clarified, liq., 35% tannin, bbls., works	lb.	.08¼-	.08½
Solid, 64% tannin, bgs., c.l., ex dock	lb.	.108718-	—
Ordinary solid, 63% tannin bgs., c.l., same basis	lb.	.099228-	—
Quercetin, fib. dms. kilo lots	kilo.	26.40	—
Quercitron extract, cryst., No. 1, bbls., l.c.l.	lb.	.40	—
Liq., No. 1, bbls., l.c.l.	lb.	.19	—
Quicksilver (see Mercury metal)			
Quince seed, bgs	lb.	1.15	- 1.50
Quinidine sulfate, USP, cns., 1,000-oz. lots	oz.	.74½-	.75
Quinine, NF, cns., 100-oz. lots	oz.	.54	—
Quinine bisulfate, USP, cns., 100-oz. lots	oz.	.28	- .29
Quinine hydrochloride, cns., 1,000-oz. lots	oz.	.32	—
Quinine sulfate, USP, cns., 1,000-oz. lots	oz.	.27½-	.29
Quinoline, dms., c.l., frt. equald	lb.	.50¾-	—
dms., l.c.l., same basis	lb.	.51¼-	—
tanks, same basis	lb.	.50	—

R

R salt, paste, dms. frt. alld., 100% basis	lb.	.88	—
Powd. frt. alld. 100% basis	lb.	.98	—
Rapeseed oil, dms.	lb.	.16½-	.17
tanks	lb.	.15	—
Rare earth oxalate, 45-50%, bgs., works	lb.	1.00	—
Rauwolfia serpentina root, powd., bbls., dms	lb.	1.00	—
Red carmine, No. 40 (see Carmine).			
Red oil (see Oleic acid)			

Red Pigments

Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).			
Red, saunders, NF, powd., bbls	lb.	.35	- .40
Reserpine, cryst., bots.	gram.	1.25	—
Resorcinol, tech grade, dms., c.l., works, frt. equald	lb.	.77½-	—
dms., l.c.l., same basis	lb.	.78½-	—
USP, cryst., dms., works	lb.	2.75	—
powd., dms., works	lb.	2.95	—
Resorcinol monoacetate, NF, dms.	lb.	2.50	—
Rhatany root, bgs.	lb.	.15	- .16
Rhodamine red toner, molybdated, PMA, kgs	lb.	6.00	—
Tungstated, PTMA, works, kgs	lb.	6.60	—
Rhodinol, 5-lb. cans	lb.	43.00	-46.00
Synthetic	lb.	11.00	-16.00
Rhubarb root, India, whole, bgs	lb.	.30	—
powd., bgs.	lb.	.38	—
Riboflavin, USP, fib. dms., kilo or more dlvd	kilo.	40.00	—
USP, readily soluble, bots., dlvd.	kilo.	130.00	—
Riboflavin, 5-phosphate-sodium fib. dms., kilo or more dlvd.	kilo.	107.50	—
Rice bran oil, clarified, dms., l.c.l.	lb.	.15½-	—
tanks, dlvd. E	lb.	.13½-	—
Rice starch (see Starch rice).			
Ricinoleic acid (see Castor oil acids split).			
Rochelle salt (see Potassium-sodium tartrate).			
Roofing pitch (see Coaltar pitch roofing).			
Rose oil, nat., Bulgarian, bots.	oz.	7.00	—
Turkish, bots.	oz.	55.00	-58.00
Rosemary oil, Spanish, NF, cns., dms.	lb.	1.05	- 1.65
tech., cns., dms.	lb.	.50	- 1.20
Rosin, gum and wood (see Naval Stores in Protective Coatings market).			
Rotenone, fib. dms., works, unit-lb.		.12	—
resin, 25-45%, fib. dms., works, unit-lb.		.12	—
Rottenstone, bgs., 5-ton lots, ex-whse	lb.	.03¾-	—
bgs., ton lots, same basis	lb.	.04¼-	—
Rubber solvent, petroleum tanks, Calif. ex tax, San Francisco	gal.	.178	—
tanks, east coast, N. J., N. Y.	gal.	.19	—
tanks, group 3	gal.	.13375-	—
Rue oil, bots.	lb.	2.75	- 3.00
Rutin, NF, fib. dms., 10 kilo lots	kilo.	16.50	—
fib. dms., 5 kilo lots	kilo.	17.00	—
fib. dms., 1 kilo	kilo.	18.00	—
Ryania, 100%, powd., bgs., c.l., works	lb.	.22	—
bgs., l.c.l., same basis	lb.	.24	—

S

S acid, bbls., works	lb.	3.25	—
Sabadilla seed, activated, ground with lime, bbls	lb.	.42	- .44
Saccharin, calcium, fib. dms., 1,000-lb. lots, works	lb.	2.50	—
USP, gran., soluble, dms., 1,000-lb. lots	lb.	1.60	—
dms., smaller lots	lb.	1.70	- 1.80
USP, powd., soluble insoluble, dms., 1,000-lb. lots	lb.	1.65	—
dms., smaller lots	lb.	1.75	- 1.95
Safflower oil, dms., New York	lb.	.1785-	.1825
tanks, Atl. Coast	lb.	.1585-	—
Safrol, dms.	lb.	.80	- .95
Saffron, Mancha Superior, tins	lb.	34.00	—
Sage, Dalmatian, bgs.	lb.	.36	- .40
Greek, cns.	lb.	.14	—
Italian, cns.	lb.	.15	—
Sage oil, clary, bots.	lb.	25.00	-32.00
Dalmatian, cns.	lb.	3.75	- 4.00
Spanish, cns.	lb.	1.20	- 1.45
Sago flour, raw bgs.	lb.	.07	- .07¼
Refd., bgs.	lb.	.09	- .09¼

Sal soda (see Soda sal).			
Salicylaldehyde, dms., c.l., t.l., f.o.b. plant, frt. equald	lb.	1.23	—
dms., l.c.l., same basis	lb.	1.25	—
Salicylamide, 100-lb. dms.	lb.	1.00	- 1.10
Salicylic acid, crude, fib. dms., c.l., t.l., frt. alld	lb.	.37¼-	—
fib. dms., l.c.l., frt. alld. on 100 lbs. or more	lb.	.38½-	—
Sublimed, tech., fib. dms., c.l., t.l., dlvd	lb.	.39¼-	—
fib. dms., l.c.l., dlvd.	lb.	.43½-	—
USP, cryst., 200-lb. fib. dms., 1,000-lbs. or more	lb.	.50½-	—
200-lb. fib. dms., less than 1,000 lbs.	lb.	.53½-	—
100-lb. fib. dms., 1,000-lbs. or more lb.	lb.	.52½-	—
100-lb. fib. dms., less than 1,000 lbs. lb.	lb.	.55½-	—
powd., 100 lb. fib. dms., 1,000 lbs. or more lb.	lb.	.57½-	—
100-lb. fib. dms., less than 1,000 lbs.	lb.	.60½-	—
Salol, NF, gran., bbls., kgs.	lb.	1.20	—
Powdered salol, 25c per lb. higher			
Salt, rock, paper bgs., c.l., 100 lbs.		1.09	—
Salt, table vacuum, common, fine, paper bgs., c.l. 100 lbs.		1.34	—
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton.	28.00	—
Saltpeter (see Potassium nitrate)			
Sandalwood, E. Indian, chips, bgs.	lb.	.65	- .66
powd., fib. dms.	lb.	.75	- .76
Sandalwood oil, cns.	lb.	13.25	-14.75
Sardine oil, crude, tanks, Pac. coast.	lb.	No stocks	
Sassafras oil, artif., dms.	lb.	.58	- .75
Nat., dom., dms.	lb.	1.70	- 2.15
Savin oil, USP, cns.	lb.	7.50	—
Savory oil, cns.	lb.	4.25	—
Schaeffer's salt, paste, dms., frt. alld. 100% basis	lb.	.85	—

Pyrethrum Flowers—Silver Bullion

Schaeffer's salt, powd., bgs., frt. alld., 100% basis	lb.	.95	—
Scopolamine hydrobromide, USP, bots	oz.	13.00	-15.90
Sebacic acid, CP, dms., c.l., works.	lb.	.69½-	—
dms., l.c.l., works	lb.	.71½-	—
Purified, dms., c.l., works	lb.	.65½-	—
dms., l.c.l., works	lb.	.67½-	—
Seidlitz mixture, fib. dms., 5,000-lb. lots	lb.	.30½-	—
fib. dms., smaller lots	lb.	.31	- .32
Selenium, powd., 99½%, dms., dlvd.	lb.	7.00	—
Senega root, bls.	lb.	2.10	—
Senna leaves, Alexandria, whole and half, bls	lb.	.22	—
siftings	lb.	.19	—
Tinnevelly, No. 1, bls	lb.	.22	—
No. 2, bls	lb.	.19	—
No. 3, bls.	lb.	.14	—
pods, bls.	lb.	.28	—
powd., bbls., bxs.	lb.	.17	—
Serpentaria root, bls.	lb.	6.50	- 7.00
Sesame oil, USP, dms.	lb.	.38	- .39
Sesame seed, Columbian, bgs.	lb.	.15½-	—
Lebanese, hulled, bgs.	lb.	.19	—
Nicaraguan, hulled Shipt., bgs	lb.	.24½-	—
nat., bgs.	lb.	.16	—
Salvadorian, nat., bgs.	lb.	.16	—
Shellac, bleached, bonedry, bgs., 1,500-lb. lots	lb.	.46	—
bbls., 1,500-lb. lots	lb.	.47	—
kgs., 1,500-lb. lots	lb.	.48	—

Bonedry shellac prices for less than 1,500-lb. lots 1c. per lb. higher for all packages.

Shellac, bleached, refd., bgs., 1,500-lb. lots	lb.	.56	—
bbls., 1,500-lb. lots	lb.	.57	—
kgs., 1,500-lb. lots	lb.	.58	—
Shellac, orange, lemon No. 1, bgs., 10-bg. lots	lb.	.38	- .39
lemon No. 2, bgs., 10-bg. lots	lb.	.36	- .37
superfine, bgs., 10-bg. lots	lb.	.34	- .35
TN, bgs., 10-bg. lots	lb.	No Stocks	

Shellac in 1 to 10-bg. lots 1c. per lb. more.

Shingle stain oil, tar distillate, dms., c.l., works	gal.	.37	—
dms., l.c.l., works	gal.	.48	—
tanks, works	gal.	.25	—
Sienna pigment, burnt, paper bgs., c.l., works	lb.	.06½-	.18⅛
paper bgs., l.c.l., works	lb.	.06¾-	.17¾
Raw, paper bgs., c.l., works	lb.	.06¾-	.16¾
paper bgs., l.c.l., works	lb.	.07	- .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works	ton.	25.00	—
bgs., l.c.l., works, ex whse.	ton.	45.00	-55.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works	ton.	20.00	—
bgs, l.c.l., works	ton.	25.00	—
99½%, 140 mesh, bgs., c.l., works	ton.	15.00	—
bgs., l.c.l., works	ton.	20.00	—
Silicon tetrachloride, tech., dms., c.l., works	lb.	.18	—
dms., l.c.l., works	lb.	.22	- .30⅛
tanks, works	lb.	.17	—
Silver bullion, ingots, cs.	Troy oz.	.90⅜-	—

More REACTIVE

SOLVAY CAUSTIC POTASH

...produces MORE SOLUBLE END PRODUCTS!

Many users select caustic potash, rather than lower cost caustic soda, because it saponifies fats and grease more readily, and—most important—provides extra efficiency.

Since it is more reactive, the products made from it are also generally more reactive—more soluble, more effective. In fact, many powerful cleaners—including some of the popular heavy-duty liquid detergents—are based on products produced from caustic potash.

We invite you to make your own test of SOLVAY Caustic Potash. Available in two grades—Technical and Mercury Cell—dry forms and liquid, in steel drums and tank cars.

Sodium Nitrite • Potassium Carbonate • Caustic Soda • Chlorine
Calcium Chloride • Sodium Bicarbonate • Ammonium Choride
Caustic Potash • Chloroform • Vinyl Chloride • Methylene Chloride
Para-dichlorobenzene • Methyl Chloride • Cleaning Compounds
Hydrogen Peroxide • Aluminum Chloride • Ammonium Bicarbonate
Soda Ash • Carbon Tetrachloride • Mutual Chromium Chemicals
Monochlorobenzene • Ortho-dichlorobenzene • Snowflake® Crystals

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☐ Walnut ☐ Liquid, 45% strength
☐ Liquid, 49-50% strength

Samples of Mercury Cell Caustic Potash
☐ Flake ☐ Liquid

☐ Caustic Potash fact book

Name_____

Position_____

Company_____

Phone_____

Address_____

City_____ Zone____ State____

Silver Cyanide—Sodium Pentachlorophenate

Silver cyanide, bots., 1,000-oz. lots, oz. .93½- —
bots., 500-oz. lots ..... oz. .94 - —
bots., 100-oz. lots ..... oz. .95 - —
Silver nitrate, CP, cryst., bots., 3,000-oz. lots .. oz. .66¼- —
dm., 1,000-oz. lots ..... oz. .66¾- —
bots., 500-oz. lots ..... oz. .67¾- —
bots., 250-oz. lots ..... oz. .67¾- —

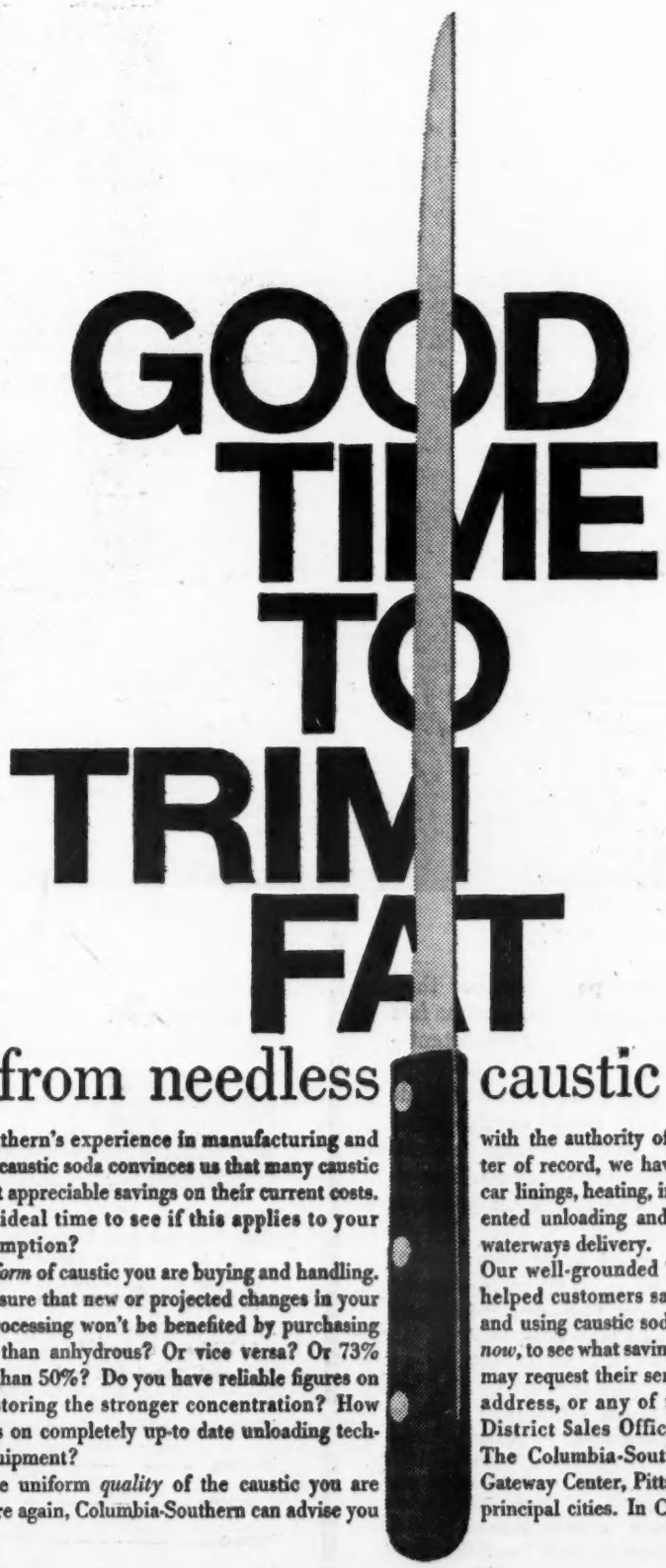
USP granular silver nitrate 4c. per oz. higher.

Silver proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.15 - —
Strong, NF, bots., dms., 1,000-oz. lots oz. 1.10 - —
Snakeroot oil, Canada, cns. ... lb. 45.00 - 60.00
Soapbark, crushed, bls. ..... lb. .35 - —
Powd., bls. ..... lb. .35 - —
Whole, bls. ..... lb. .30 - —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
paper bgs., l.c.l., stock pts., 100-lbs. 3.00 - 4.77
bulk, c.l., works ..... 100 lbs. 1.60 - —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
paper bgs., l.c.l., stock pts. 100 lbs. 3.93 - 4.72
bulk, c.l., works ..... 100 lbs. 1.55 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 5.20 - —
Liq., 50%, sellers tanks, works, dry basis 100 lbs. 2.90 - —
50%, rayon type, sellers' tanks, works, dry basis 100 lbs. 2.90 - 3.00
73%, sellers' tanks, works, dry basis 100 lbs. 3.00 - —

Soda, caustic, liq., 73%, rayon type, sellers' tanks, works, dry basis 100 lbs. 3.00 - 3.10
Solid, 76%, dms., c.l., works, 100 lbs. 4.50 - —
Soda, sal, conc., bgs., c.l., works, 100 lbs. 2.50 - —
bgs., smaller lots, works 100 lbs. 2.80 - —
Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —
bgs., l.c.l., same basis ..... lb. .16½- —
NF, 60%, gran., dms., c.l., works, lb. .15½- —
dms., l.c.l., wors ..... lb. .17½- —
Sodium alginate, NF, white powd., dms., 300 lbs. or more lb. .93 - —
Sodium p-aminosalicylate, dms., 100-lb. lots or more, frt. adjusted lb. 2.70 - —
Sodium antimoniate, bgs., c.l., dlvd. E lb. .25½- —
bgs., l.c.l., dlvd. E ..... lb. .27 - —
Sodium arsenate, 60% arsenic pentoxide, dealers, dms., ton or more, works lb. .26 - —
dms., less than ton lots, works lb. .26½- —
Sodium arsenite 90% pink powder, 75% arsenious oxide, dealers, dms., ton lots or more, works lb. .17½- —
dms., less than ton lots, works lb. .18 - .19

Sodium ascorbate, dms., 25-50 kilo lots kilo. 10.00 - —
dms., 10-kilo lots ..... kilo. 10.35 - —
dms., 5-kilo lots ..... kilo. 10.75 - —
dms., 1-kilo lots ..... kilo. 11.00 - —
bots., 500-gram, bots. ..... kilo. 11.50 - —
Sodium benzoate, tech. c.l., t.l., frt. alld. lb. .33 - —
dms., l.c.l., same basis ..... lb. .39 - —
USP, c.l., t.l., frt. alld. ..... lb. .38 - —
ton lots, same basis ..... lb. .43 - —
1,000-lb. lots, same basis . lb. .45 - —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
bgs., l.c.l., works ..... 100 lbs. 3.85 - —
USP, powd., bgs., c.l., works. 100 lbs. 2.55 - —
bgs., l.c.l., works ..... 100 lbs. 3.45 - —
Sodium bichromate, gran., bgs., c.l. t.l., works lb. .13 - —
bgs., l.c.l., works ..... lb. .13½- .14¾
Sodium bifluoride, bbls., c.l., works, frt. equald lb. .19½- —
bbls., l.c.l., same basis ..... lb. .1990- —
Sodium bisulfate, bulk, c.l., works. 100 lbs. 2.00 - —
dms., c.l., frt. equald 100 lbs. 3.00 - 3.60
dms., l.c.l., frt. equald 100 lbs. 3.50 - 4.10
Sodium bisulfite, anhyd., bgs. c.l., works 100 lbs. 5.00 - —
bgs., l.c.l., works 100 lbs. 5.45 - —
Soln., 35°, bbls., c.l., works 100 lbs. 1.70 - —
bbls., l.c.l., works 100 lbs. 2.20 - —
Sodium borate (see Borax).
Sodium bromide, USP, gran., dms., works lb. .40 - —
Sodium carbonate, cryst., monohydrated (see Soda, sal).
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs. 3.10 - —
bgs., l.c.l., works ..... 100 lbs. 3.50 - —
Sodium carboxymethyl cellulose (see CMC).

Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 - —
dms., l.c.l., works ..... lb. .09½- .10½
Sodium chlorate in 100-lb. dms., only, ¼c. per lb. higher.
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran., bgs. lb. .05 - —
Sodium chlorite, tech., dms., c.l., works lb. .58 - —
dms., 20-dm. lots or more, works. lb. .66 - —
dms., smaller lots, works .. lb. .70 - .73
Sodium chloroacetate, tech., dms., c.l., works lb. .27 - —
dms., l.c.l., works ..... lb. .28 - —
Sodium chromate, anhyd., fib. dms., c.l., t.l., works lb. .14¾- —
fib. dms., l.c.l., works .... lb. .15¼- .16½
Sodium chromate, tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
bgs., l.c.l. ..... lb. .1065- .1190
Sodium citrate, anhyd., dms. ... lb. .62 - —
NF, VIII, gran., dms. ..... lb. .26½- .27½
USP, XIV, gran., dms. ..... lb. .29½- .30½
Sodium citrate, USP powd. prices ½c. higher.
Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 - —
dms., smaller lots, works .. lb. .90 - 1.10
Sodium cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .193 - —
dms., over 1,000-lb. lots .. lb. .203 - —
dms., 100-lb. to 1,000-lb. lots lb. .213 - —
Gran. sodium cyanide 1c. higher.
Sodium cyclamate, 100-lb. dms lb. 2.50 - —
Sodium diacetate, 35-35½% acidity, 250-lb. dms., works .. lb. .15 - —
250-lb. dms., l.c.l., works .. lb. .15¾- —
Anhyd., dms., c.l., works ... lb. .18 - —
dms., l.c.l., works ..... lb. .18¾- —
Sodium dimethyl dithiocarbamate, 40% soln., dms., c.l., t.l., frt. alld., 100% basis lb. .42 - —
dms., l.c.l., t.l., same basis lb. .47 - .52
tanks, same basis ..... lb. .38 - —
Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs., smaller lots ..... lb. .14 - —
Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
fib. dms., l.c.l., works, frt. equald lb. .1430- —
Sodium formate, bgs., c.l., works. 100 lbs. 7.00 - —
bgs., l.c.l., works ..... 100 lbs. 8.65 - —
Sodium gentisate, 100-lb. fib. dms. lb. 5.50 - —
Sodium gluconate, refd., dms. ... lb. .84 - —
Tech., dms., bgs. ..... lb. .37 - .39
Sodium hydride, powd., dms., works. lb. 1.90 - 2.75
Sodium hydrosulfide (see Sodium sulfhydrate).
Sodium hydrosulfite, dms., c.l., frt. alld lb. .23¾- —
dms., l.c.l., frt. alld. ..... lb. .24¾- —
Sodium hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots. lb. .23½- .28
Sodium hydroxide, tech. (see Soda, caustic).
Sodium hypophosphite, NF, dms., 1,000-lb. lots lb. .97 - —
Sodium hyposulfite, anhyd., photo grade, bgs., c.l., works. 100 lbs. 7.50 - 8.05
bgs., l.c.l., works .... 100 lbs. 7.89 - 8.45
Sodium hyposulfite, tech. bgs., c.l., works 100 lbs. 7.25 - —
bgs., l.c.l., works ... 100 lbs. 7.60 - —
Sodium hyposulfite hexahydrate, pea., cryst., bgs., c.l., works 100 lbs. 5.15 - —
bgs., l.c.l. works ... 100 lbs. 5.55 - —
Sodium hyposulfite hexahydrate, photo grade, bgs., c.l., works. 100 lbs. 7.75 - —
bgs., l.c.l., works .... 100 lbs. 8.05 - —
Sodium hyposulfite pentahydrate, tech., bgs., c.l., works. 100 lbs. 4.65 - 5.15
bgs., l.c.l., works ... 100 lbs. 4.90 - 5.55
Sodium iodide, USP, 300-lb. dm lb. 1.96 - —
Sodium lactate, edible, 60%, cbys., dms., works lb. .26½- —
Sodium lauryl sulfate, dms., c.l., dlvd lb. .19 - —
dms., l.c.l., dlvd. ..... lb. .19½- .20¼
tanks, dlvd. ..... lb. .18 - —
Sodium metabisulfite (see Sodium bisulfite).
Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 - 6.50
l.c.l., bgs., works ..... 100 lbs. 4.40 - 7.00
Sodium metaborate octahydrate, gran., bgs., c.l. works ton. 92.00 - —
bgs., ton lots, ex whse. .... ton. 150.00 - —
bgs., smaller lots, ex whse ton. 155.00 - —
Sodium metaborate tetrahydrate, bgs., c.l. works .. ton. 200.00 - —
bgs., ton lots, ex whse. .... ton. 268.50 - —
bgs., smaller lots, ex whse .. ton. 273.50 - —
Sodium, metallic bricks, c.l. works. lb. .19½- —
Fused, 18,000-lb. lots or more, works lb. .19 - —
tanks, works ..... lb. .17 - —
Sodium metalinate, bbls., frt. alld. lb. .62 - —
Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
bgs., 6,000-19,900 lb. lots, works. 100 lbs. 6.05 - —
dms., c.l., works ..... 100 lbs. 6.20 - —
dms., l.c.l., works ..... 100 lbs. 6.55 - —
gran., fib. dms. ..... lb. .17½- .18
Sodium metasilicate pentahydrate, bgs., c.l., works. 100 lbs. 4.45 - —
bgs., l.c.l., works ..... 100 lbs. 4.80 - 6.75
dms., c.l., works ..... 100 lbs. 4.95 - —
dms., l.c.l., works ..... 100 lbs. 5.30 - 7.25
Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 - .96
Cryst., dms., works, frt. alld. lb. .73 - .74
Sodium monoglutamate (see Monosodium glutamate).
Sodium monohydrate (see Sodium carbonate, monohydrated).
Sodium naphthionate, bbls. ..... lb. .70 - —
Sodium nitrate, dom., crude, bgs., c.l., works ton. 43.75 - —
bulk, c.l., works ..... ton. 45.25 - —
Imp., 100-lb. bgs., c.l., Atl., Gulf, Pac., whse. ton. 49.75 - —
bulk, c.l., same basis ..... ton. 46.25 - —
Sodium nitrite, USP, bbls., c.l., works, frt. equald 100 lbs. 9.00 - —
bbls., l.c.l., same basis 100 lbs. 11.00 - —
Sodium orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
dms., l.c.l., works ..... 100 lbs. 7.05 - 7.65
Sodium orthosilicate, hydrated, flake, bbls., c.l. works. 100 lbs. 5.65 - —
bbls, l.c.l., works ..... 100 lbs. 7.60 - 7.90
Sodium oxalate, 98%, bgs., works. 100 lbs. 12.35 - —
Sodium para-aminobenzoate (see Sodium p-aminobenzoate).
Sodium para-aminosalicylate (see Sodium p-aminosalicylate).
Sodium pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .26 - —
bgs., l.c.l., same basis ..... lb. .27½- .34
Pellets, bgs., c.l., same basis lb. .26 - —
bgs., l.c.l., same basis ..... lb. .27½- .34



from needless caustic soda costs!

Columbia-Southern's experience in manufacturing and selling quality caustic soda convinces us that many caustic users can effect appreciable savings on their current costs. Isn't this the ideal time to see if this applies to your caustic consumption?

Let's take the *form* of caustic you are buying and handling. Are you quite sure that new or projected changes in your products or processing won't be benefited by purchasing liquid, rather than anhydrous? Or vice versa? Or 73% liquid, rather than 50%? Do you have reliable figures on diluting and storing the stronger concentration? How about the facts on completely up-to date unloading techniques and equipment?

How about the uniform *quality* of the caustic you are receiving? Here again, Columbia-Southern can advise you with the authority of recognized experience. As a matter of record, we have led in developing improved tank car linings, heating, insulation, and safety features . . . patented unloading and dilution processes . . . economical waterways delivery.

Our well-grounded Technical Service engineers have helped customers save thousands of dollars in buying and using caustic soda. Isn't it good business, especially *now*, to see what savings they might work out for you? You may request their services either through our Pittsburgh address, or any of the fourteen Columbia-Southern District Sales Offices.

The Columbia-Southern Chemical Corporation, One Gateway Center, Pittsburgh 22, Pennsylvania. Offices in principal cities. In Canada: Standard Chemical Limited.

COLUMBIA-SOUTHERN CHEMICAL CORPORATION A Subsidiary of Pittsburgh Plate Glass Company

Sodium pentachlorophenate, powd., bgs., dms., c.l., same basis .lb. .25 - —
bgs., dms., l.c.l., same basis .lb. .26½- .33

Sodium pentachlorophenate, 20,000 lbs., min. truckloads, ¼c. per lb. over carlot prices.

Sodium pentobarbital, USP, dms., 100 lbs. or more lb. 6.00 - —
Sodium perborate, NF, tech., bgs., c.l., works lb. .19 - —
bgs., l.c.l., works .lb. .21 - —
Sodium peroxide, dms., c.l., t.l., dlvd. E. of Miss. .lb. .20½- —
dms., l.c.l., same basis .lb. .21 - .21½
Sodium phenobarbital, USP, 100-lb. dms .lb. 3.75 - —
Sodium phenolsulfonate, USP, IX, gran., dms .lb. .50 - .51
NF, powd., dms. .lb. .53 - .54
Sodium phosphate, dibasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 7.95 - —
bgs., l.c.l., same basis .100 lbs. 8.35 - 9.40
duohydrate, bgs., c.l., frt. equald .100 lbs. 7.60 - —
bgs., l.c.l., same basis .100 lbs. 8.10 - —
USP, dried, powd., bgs., dms., works lb. .19 - .20½
Sodium phosphate, monobasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 9.00 - —
bgs., l.c.l., same basis .100 lbs. 9.40 -10.00
Sodium phosphate, tribasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 9.05 - —
bgs., l.c.l. frt. equald.100 lbs. 9.45 -10.05
Cryst., bgs., c.l., t.l., frt. equald. 100 lbs. 4.60 - —
bgs., l.c.l., frt. equald .100 lbs. 5.00 - 5.75
Sodium phosphate in dms. 60c to 80c. higher than bgs.

Sodium prussiate, yellow (see Sodium ferrocyanide).

Sodium pyrophosphate acid, bgs., c.l., works, frt. equald. 100 lbs.11.10 - —
bgs., l.c.l., same basis .100 lbs.11.85 -12.35
Sodium pyrophosphate, ferric, dms., c.l., t.l., works lb. .36 - —
dms., l.c.l., works .lb. .37 - .39
Sodium pyrophosphate, tetrabasic, anhyd., bgs., c.l., works, frt. equald .100 lbs. 7.81 - —
bgs., l.c.l., same basis .100 lbs. 9.21 - 9.71
Sodium salicylate, USP, dms., 1,000-lbs. or more lb. .78½- —
dms., less than 1,000 lbs dms.lb. .81½- —
Sodium sesquicarbonate, bgs., c.l., works .100 lbs. 2.35 - —
bgs., l.c.l., dlvd. zone 1 .100 lbs. 4.10 - 4.35
dlvd. zone 2 .100 lbs. 4.35 - 4.60
dlvd. zone 3 .100 lbs. 4.75 - 4.90
dlvd. zone 4 .100 lbs. 5.35 - 5.60

Sales zones are: (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss., south of 31°; Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn., Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No of 31°; (3) Ark. W. of 98°, Kan., Neb. W. of 98° N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

Sodium sesquisilicate, anhyd., bgs., c.l., t.l., works .100 lbs. 5.70 - —
dms., c.l., t.l., works .100 lbs. 6.20 - —
hydrated, bgs., c.l., works .100 lbs. 5.00 - —
bgs., 6,000-19,900 lb. lots, works. 100 lbs. 5.35 - —
Sodium sesquisilicate, hydrated, dms., c.l., works .100 lbs. 5.50 - —
dms., 6,000-19,900 lb. lots, works. 100 lbs. 5.85 - —
Sodium silicate, liq., 40° Be, turbid, 1:3.2, dms., c.l., works. 100 lbs. 1.55 - —
dms., l.c.l., works .100 lbs. 1.90 - 2.40
tanks, works .100 lbs. 1.20 - —
47° Be., turbid, 1:2.9, dms., c.l., works .100 lbs. 2.25 - —
dms., l.c.l., works .100 lbs. 2.60 - 3.45
tanks, works .100 lbs. 1.90 - —
52° Be, turbid, 1:2.4, dms., c.l., works .100 lbs. 2.65 - —
dms., l.c.l., works .100 lbs. 3.00 - 3.50
tanks, works .100 lbs. 2.30 - —
Solid, 1:3.2, bgs., works .ton.67.50 - —
Sodium silicofluoride, bgs., c.l., works .lb. .065 - —
bgs., l.c.l., works .lb. .069 - —
Sodium silicofluoride in dms., 0.4c. per lb. higher.
Sodium stannate, dms., works, frt. alld. E. .lb. .613 - .672

Sodium sulfa drugs (see Sulfa name).

Sodium sulfanilate, bbls., works .lb. .22 - —
Sodium sulfate, NF VII, dried, powd., dms .lb. .22½- —
Tech., anhyd., bgs., c.l., dlvd. E .ton.54.00 - —
detergent, rayon grade, bgs., c.l., works .ton.36.00 - —
bulk, c.l., works .ton.32.00 - —
USP, cryst., fib. dms. .lb. .17½- .18
Sodium sulfhydrate, flake, 70-72%, dms., c.l., works frt. equald. .lb. .07¼- —
dms., l.c.l., same basis .lb. .08¼- —
Liq., 40-44%, tanks, works, 100% basis .ton.130.00 - —
Sodium sulfide, flake, dms., c.l., works, E., frt. equald. .lb. .06 - —
dms., l.c.l., same basis .lb. .07 - —
fused, bbls., c.l., works, E., frt. equald .lb. .05½- —
bbls., l.c.l., same basis .lb. .06½- —
Sodium sulfite, anhyd., bgs., c.l. works .100 lbs. 7.55 - —
bgs., l.c.l., same basis .100 lbs. 7.95 - —
Tech., bgs., c.l., works .100 lbs. 3.50 - —
bgs., t.l., same basis .100 lbs. 4.00 - —
Sodium sulfocyanide, CP (see Sodium thiocyanate).
Sodium tetraborate (see Borax)
Sodium tetrasulfide, liq., 40% dms., c.l., works, frt. equald. .lb. .04½- —
dms., l.c.l., same basis .lb. .05½- —
Sodium thiocyanate, CP, dms .lb. .55 - .65
Tech., anhyd., dms., 1 ton lots or more, works .lb. .317 - —
dms., less than ton lots, works .lb. .337 - —
Sodium thiosulfate, NF, cryst. bbls. .lb. .13½- —
Sodium thiosulfate, tech. (see Sodium hyposulfite).
Sodium titanate, ctns., c.l., works. .lb. .14¼- —
ctns., 5-ton lots, works .lb. .14½- —
ctns., 1-ton or less, works .lb. .14¾- —
Sodium trichloroacetate, 94%, 100-lb. dms., c.l., frt. alld. E. .lb. .35 - —
50-lb. dms., c.l., frt. alld. E. .lb. .35½- —
10-lb. cns., c.l., frt. alld. E. .lb. .42 - —

Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Sodium tripolyphosphate, bgs., c.l., works, frt. equald. .100 lbs. 8.16 - —
bgs., l.c.l., same basis .100 lbs. 8.56 - 9.06
Sodium trisilicate, powd., 1:3.2, bgs., c.l., works .100 lbs. 8.95 - —
bgs., l.c.l., works .100 lbs. 9.70 -13.13
dms., c.l., works .100 lbs. 9.45 - —
dms., l.c.l., works .100 lbs.10.20 -10.60
Sodium tungstate, tech., kgs. dlvd. E .lb. 1.18 Nom.
Sodium-ammonium phosphate, purif., cryst., dms., works .lb. .52 - —

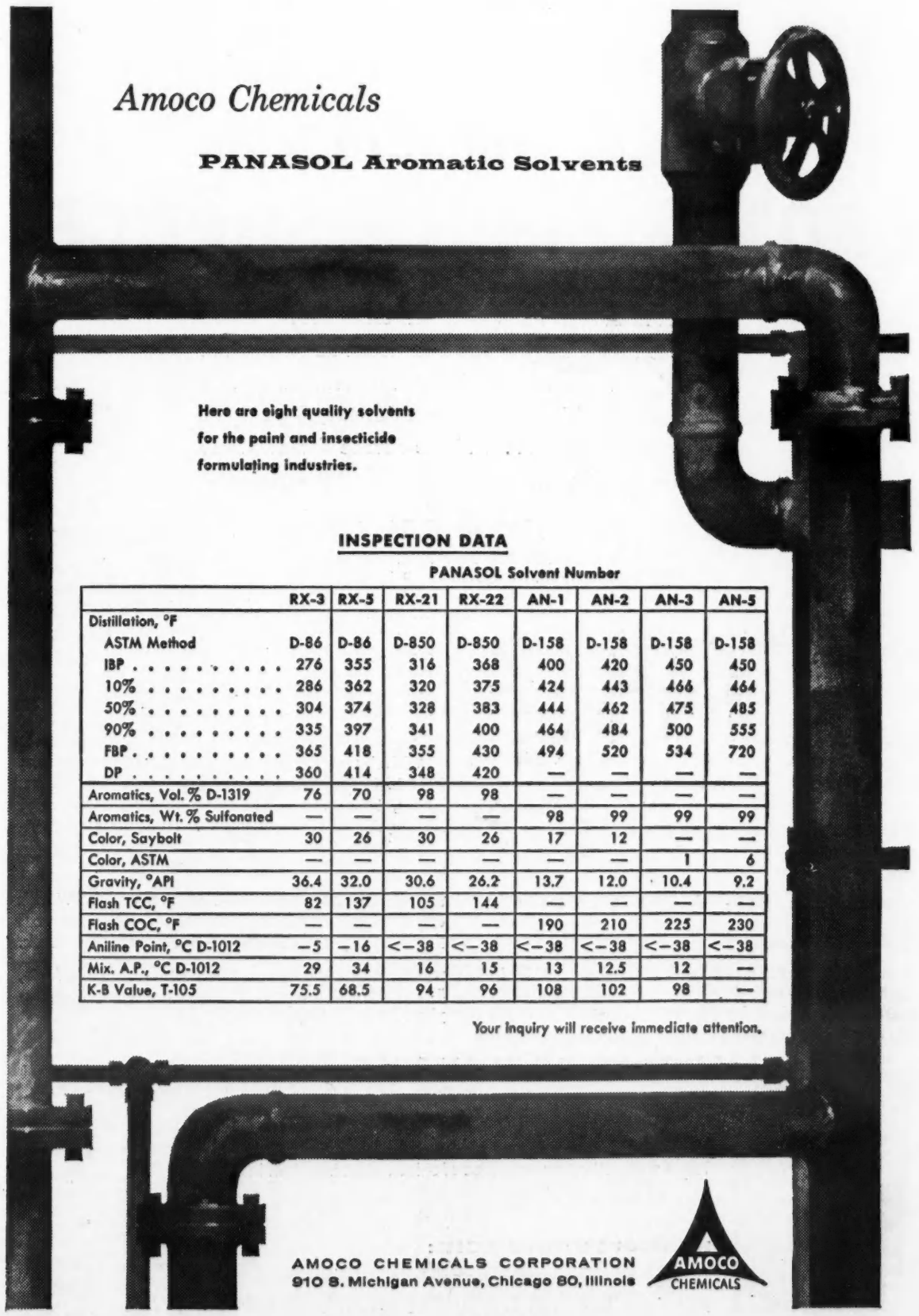
Sodium-carboxymethyl cellulose (see CMC).

Sodium-cinchophen (see Cinchophen-sodium).

Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd .lb. .21 - —
dms., l.c.l., same basis .lb. .21½- —
Sodium-zirconyl sulfate, fib. dms., 1,000-lb. lots or more works lb. .28 - —
fib., dms., smaller lots, same basis .lb. .30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt. equald .gal. .30 - .35½
Solvent naphtha, petroleum, aromatic 312°-365°F, b.r., 17.2°C. m.a.p., tanks, New Jersey .gal. .31 - —
315°-350°F, b.r., 17.2°C. m.a.p., tanks, Texas City .gal. .35 - —
342°-351°F, b.r., 15°C. m.a.p., tanks, Baytown, Texas.gal. .29 - —
319°-348°F, b.r., 16.5°C, m.a.p., tanks, Houston .gal. .32 - —
322°-350°F, b.r., 17.2°C, m.a.p., tanks, Baytown, Tex. .gal. .29 - —
334°-392°F, b.r., 19°C, m.a.p., tanks, Philadelphia .gal. .25 - —
362°-412°F, b.r., 17.5°C, m.a.p., tanks, Houston .gal. .32 - —
365°-404°F, b.r., 19°C, m.a.p., tanks, New Jersey .gal. .32 - —
367°-421°F, b.r., 20°C, m.a.p., tanks, Baytown, Tex. .gal. .30 - —

Solvent naphtha, petroleum, partial aromatic, 205°-282°F, b.r., 38°C, m.a.p., tanks, New Jersey .gal. .24 - —
211°-277°F, b.r., 25.6°C, m.a.p., tanks, New York, New Jersey gal. .28 - —
212°-293°F, b.r., 38°C, m.a.p., tanks, Philadelphia .gal. .24 - —
221°-278°F, b.r., 34.8°C, m.a.p., tanks, Houston .gal. .20 - —
266°-374°F, b.r., 24°C, m.a.p., tanks, Philadelphia .gal. .25 - —
283°-285°F, b.r., 41.6°C, m.a.p., tanks, Houston .gal. .25 - —
284°-383°F, b.r., 35°C, m.a.p., tanks, Philadelphia .gal. .27 - —
357°-403°F, b.r., 34°C, m.a.p., tanks, Houston .gal. .26 - —
358°-401°F, b.r., 24.4°C, m.a.p., tanks, New Jersey .gal. .38 - —
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
fib. dms., 10,000 to 20,000-lb. lots, works .lb. .35 - —
fib. dms., smaller lots, works .lb. .38 - .40
Sorbitan tristearate, fib. dms., 20,000-lb. lots, works lb. .34 - —
fib. dms., 10,000 to 20-000-lb. lots, works .lb. .36 - —
fib. dms., smaller lots, works .lb. .39 - .41
Sorbitol, cryst., resin grade, pellets, dms., c.l., works .lb. .23 - —
dms., 1 to 5-ton lots, works. lb. .25 - .26

Sorbitol, powd., dms., c.l., works.lb. .36 - —
dms., 1 to 5-ton lots, works. lb. .38 - .39
Soln., coml., aqueous, dms., c.l., works .lb. .24¼- —
dms., ton lots, works .lb. .25 - —
dms., smaller lots, works lb. .25¼- —
tanks, works .lb. .23¼- —
NF, reg., 70% aqueous, dms., c.l., works .lb. .16 - —
dms., ton lots, works .lb. .16¾- —
dms., smaller lots, works .lb. 17 - —
tanks, works .lb. .15 - —
Soya protein, chemically isolated, old process, bgs., c.l., works. .lb. .23 - —
bgs., l.c.l., works .lb. .23½- —
Chemically isolated, new process, bgs., c.l., works .lb. .19 - —
bgs., l.c.l., works .lb. .19½- —
Soybean meal, 44% bulk, Decatur, ton.49.00 - —
Soybean oil, crude, tanks, Decatur. .lb. .10¼- —
Foots, soapstock, acid 95%, tanks, N. Y. .lb. .04¾- —
Refd., alkali, dms. .lb. .1473- .1500
tanks .lb. .1273- —
Clarified, dms. .lb. .1423- .1450
tanks .lb. .1223- —
Salad, dms. .lb. .14¼- .14¼
tanks .lb. .12¼- —
Soybean oil acids, dbl. dist., dms., .lb. .19 - .21¼
tanks .lb. .16½- —
S. D., dms. .lb. .17¾- .20¼
tanks .lb. .15¼- —


Amoco Chemicals
PANASOL Aromatic Solvents
Here are eight quality solvents
for the paint and insecticide
formulating industries.
INSPECTION DATA
PANASOL Solvent Number
RX-3 RX-5 RX-21 RX-22 AN-1 AN-2 AN-3 AN-5
Distillation, °F
ASTM Method D-86 D-86 D-850 D-850 D-158 D-158 D-158 D-158
IBP 276 355 316 368 400 420 450 450
10% 286 362 320 375 424 443 466 464
50% 304 374 328 383 444 462 475 485
90% 335 397 341 400 464 484 500 555
FBP 365 418 355 430 494 520 534 720
DP 360 414 348 420 — — — —
Aromatics, Vol. % D-1319 76 70 98 98 — — — —
Aromatics, Wt. % Sulfonated — — — — 98 99 99 99
Color, Saybolt 30 26 30 26 17 12 — —
Color, ASTM — — — — — — 1 6
Gravity, °API 36.4 32.0 30.6 26.2 13.7 12.0 10.4 9.2
Flash TCC, °F 82 137 105 144 — — — —
Flash COC, °F — — — — 190 210 225 230
Aniline Point, °C D-1012 −5 −16 <−38 <−38 <−38 <−38 <−38 <−38
Mix. A.P., °C D-1012 29 34 16 15 13 12.5 12 —
K-B Value, T-105 75.5 68.5 94 96 108 102 98 —
Your inquiry will receive immediate attention.
AMOCO CHEMICALS CORPORATION
910 S. Michigan Avenue, Chicago 80, Illinois
AMOCO CHEMICALS

Soybean Pitch—Tall Oil

Soybean pitch, dms., works....lb. .03 - .05¼
Sparteine sulfate, cns. .....oz. .80 - .90
Spearmint leaves, dom., bls. .....lb. .75 - —
Spearmint oil, NF, dms.....lb. 6.10 - 7.60
Sperm oil, bleached, winter, 45°, dms..lb. .1625- .17
tanks .....lb. .1450- —
Nat., winter, 45°, dms. .....lb. .1525- .16
tanks .....lb. .1350- —
Spermaceti wax, blocks, cs. ....lb. .31 - .34
Cakes, cs. .....lb. .32 - .34
Spruce extract, liq., reg. tanks, works lb. .01¾- —
Powd., super, bgs., c.l., works. lb. .05¼- —
bgs., l.c.l., works.....lb. .05½- —
Spruce oil, cns., dms. .....lb. 2.10 - 3.55
Squill, white, bls. .....lb. .16 - .18
powd., bbls., bxs. .....lb. .17 - .20
St. John's bread, edible, bls. ....lb. .14 - .16
Stannic chloride, anhyd., dms., works lb. .771 - .781
Stannic oxide, dms., divd. .....lb. 1.04½- 1.05½
Stannous chloride, anhyd. dms., works lb. .971 - 1.463
Stannous chloride, hydrous, cryst., dms., works lb. .84 - .85
Stannous sulfate, dms., works....lb. 1.027 - 1.047
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.38 - —
paper bgs., l.c.l. .....100 lbs. 7.53 - —
Powd., paper bgs., c.l. ..100 lbs. 7.50 - —
paper bgs., l.c.l. .....100 lbs. 7.65 - —
Prices for corn starch in cotton bags, 15c. per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works..lb. .0580- —
Maine, bgs., c.l., works.....lb. .06 - —
bgs., l.c.l., ex whse, New York. -lb. .03¼- .09¼
Starch, rice, bgs., ex whse. .....lb. .14 - .15
Starch, wheat, bgs. .....lb. .06½- .09
Star root (see Helonias root).
Stargrass root (see Aletris root).
Stavesacre seed, bgs. .....lb. .60 - .61
Stearic acid, dbl., pressed, bgs..lb. .16½- .19
Single-pressed, bgs. .....lb. .16 - .18½
Triple-pressed, bgs. .....lb. .18¾- .19¼
Stearine, oleo (see Oleostearine).
Stoddard solvent, petroleum tanks, east coast, New Jersey, New York..gal. .18 - —
tanks, western Pennsylvania, gal. .16 - —
tanks, group 3 .....gal. .13375- —
tankwagon, Boston .....gal. .20 - —
Chicago .....gal. .299 - —
Cleveland .....gal. .23½- —
Los Angeles, ex tax.....gal. .199 - —
Newark .....gal. .19 - —
New York .....gal. .19 - —
Philadelphia .....gal. .19½- —
Pittsburgh .....gal. .19 - —
Stramonium leaves, bgs.....lb. .16 - .19
Streptomycin hydrochloride, bulk, gram. .07 - —
Streptomycin sulfate, bulk....gram. .07 - —
Strontium bromide, NF, cryst., 150-lb. fib. dms..lb. .84 - —

Strontium carbonate, pure, dms., 5-ton lots or more, works.lb. .35 - —
dms., 1-ton lots, works.....lb. .37 - —
Tech., dms., works .....lb. .19 - —
Strontium chromate, fib. dms., works, lb. .49 - —
Strontium iodide, jars, 25-lb. lots. lb. 3.57 - —
Strontium nitrate, bgs., c.l., works. 100 lbs.11.00 - —
bgs., l.c.l., works.....100 lbs. 12.00 - —
Strontium salicylate, NF, dms. ...lb. 1.88 - —
Strontium sulfate, air floated, 90% 325 mesh, bgs., works.. ton.56.70 -66.15
Strophanthin G (see Ouabain, USP).
Strophanthin K, bots. .....oz.25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs..lb. 3.50 - 3.75
Styrax gum, USP, cs. .....lb. 3.00 Nom.
Styrene monomer, polymer grade, 99.6%, dms., c.l., frt. alld. lb. .17 - —
dms., l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .14½- —
Styrene monomer, tech., 99.2%, dms., c.l..lb. .1517- —
dms., l.c.l., same basis..lb. .1717- —
tanks, bulk, same basis..lb. .1267- —
Above prices are escalated for each calendar quarter on the basis of cost of crude oil at the well, cost of petroleum refining labor, and prices in the three major sections of the Wholesale Commodity Price Index.
Styrolyl acetate, bots. .....lb. 1.25 - 1.45
Succinic acid, purif., cryst., bbls., works..lb. .62 - .75
Sucrose, refd., white, bgs., refy. E. lb. .0935- —
Sucrose octa-acetate, denaturing grade, 100-200-lb. lots, bgs., l.c.l., works..lb. .84 - —
Sugar (see Sucrose).

Sugar cane wax, dom., refd., slabs, 80-lb. ctns., works..lb. .65 - .75
80-lb. ctns., spot.....lb. .67¼- .72¼
Sulfabenzamide, dms. .....kilo. 8.80 - 9.90
Sulfabenzamide-sodium, dms. ..kilo. 9.00 -10.10
Sulfacetamide USP fib. dms. ..kilo. 7.70 - 8.80
Sulfacetamide-sodium, USP, fib. dms..kilo. 8.15 - 9.25
Sulfadiazine, USP, microcrystals, dms..kilo.23.35 -24.45
powd., dms. .....kilo.22.60 -23.70
Sulfadiazine-sodium, USP, dms. kilo.24.80 25.90
Sulfaguanidine, NF X, dms. ..kilo. 5.50 - 6.60
Sulfamerazine, USP, microcrystals, dms..kilo.23.50 -24.60
Sulfamerazine-sodium, USP, powd., dms..kilo.24.80 -25.90
Sulfamethazine, microcrystals, USP XV, dms..kilo.19.65 -20.75
Powd., dms. .....kilo.18.75 -19.85
Sulfamic acid, cryst., dms., c.l., t.l., works..100 lbs.16.00 - —
dms., l.c.l., t.l.l., works..100 lbs.17.50 -18.50
100 lbs. or more..lb. 6.00 - —
Gran., dms., c.l., t.l., works. 100 lbs.14.75 - —
dms., l.c.l., t.l.l., works..100 lbs.16.25 -17.25
Sulfanilamide NF X, 30-80 mesh, dms..kilo. 3.05 - 3.50
NF X, microcrystals, dms. ...kilo. 3.79 - 4.20
NF X, powd., dms. .....kilo. 2.85 - 3.30
Sulfanilamide quinoxaline, veterinary, dms..kilo.14.12 -14.85
Sulfanic acid, tech., dms., c.l., frt. alld..lb. .21 - —
dms., l.c.l., frt. alld. .....lb. .23 - —
Sulfapyridine USP XV, powd., bots., tins kilo.15.45 -16.55
Sulfapyridine-sodium, monohydrate, dms..kilo.16.55 -17.65
Sulfathiazole, NF X, powd. dms. kilo. 5.50 - 5.35
microcrystals, dms. .....kilo. 6.25 - 6.60
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 - —
Sulfur, coml., flour, bgs., mines. 100 lbs. 2.45 - —
bbls., mines .....100 lbs. 3.30 - —
lump, bgs., mines.....100 lbs. 2.35 - —
bbls., mines.....100 lbs. 2.90 - —
Sulfur, crude, dom., bright, bulk, f.o.b. cars, mines long-ton.23.50 - —
Export, f.o.b. vessels Gulf ports..long-ton.25.00 - —
US and Canada, f.o.b. vessels Gulf ports, long-ton.25.00 - —
Domestic dark sulfur prices are $1 per long-ton lower.
Sulfur, crude, bulk, imp., Mexican, filtered, f.o.b., vessel, Coatzacoalcos..long-ton.24.00 - —
Mexican dark sulfur price is $1 per long-ton lower.
Sulfur, refd. flowers, NF, bgs., mines..100 lbs. 5.15 - —
bbls., mines.....100 lbs. 6.50 - —
flour, light, bgs., mines..100 lbs. 4.75 - —
bbls., mines.....100 lbs. 5.75 - —
lump bgs., mines.....100 lbs. 4.45 - —
rolls, bgs., mines.....100 lbs. 5.00 - —
bbls., mines.....100 lbs. 5.75 - —
salt block, bgs., mines..100 lbs. 4.65 - —
virgin block, bbls., mines..100 lbs. 4.70 - —
Sulfur, rubbermakers, coml., reg., bgs., mines..100 lbs. 2.55 - —
bbls., mines.....100 lbs. 3.80 - —
98-100%, passing through 325 mesh, bgs., mines.100 lbs. 2.05 - —
bbls., mines.....100 lbs. 3.90 - —
refd., bgs., mines.....100 lbs. 4.40 - —
bbls., mines.....100 lbs. 5.55 - —
treated, 2.5% mineral oil, bgs., mines..100 lbs. 2.85 - —
bbls., mines.....100 lbs. 4.10 - —
Sulfur dichloride, ret. dms., c.l., works, frt. equald..lb. .04½- —
ret. dms., l.c.l., same basis....lb. .05¼- —
tanks, same basis.....lb. .04 - —
Sulfur dioxide, liq., coml., cyls., works, frt. equald..lb. .10 - .12
multi-unit cars, works.....lb. .0335- —
tanks, works .....lb. .045 - —
Refrigeration, 150-lb. cyls., divd. lb. .33 - —
Sulfur monochloride 55-gal. non-ret. dms., c.l., frt. equald..lb. .04½- —
dms., l.c.l., same basis.....lb. .05¼- —
tanks, same basis.....lb. .04 - —
Sulfuric acid, 60° Be, cbys., c.l., works..100 lbs. 2.00 - —
cbys., l.c.l., works.....100 lbs. 2.30 - —
tanks, works.....ton.18.60 - —
Sulfuric acid, 66° Be, cbys., c.l., works..100 lbs. 2.25 - —
cbys., l.c.l., works .....100 lbs. 2.55 - 3.35
tanks, works.....ton.22.35 - —
93%, tanks, works.....ton.23.50 - —
99-100% tanks, works.....ton.23.95 - —
CP, NF, consumers' cbys., c.l., frt. equald..lb. .12¾- —
consumers' cbys., l.c.l., same basis..lb. .14¼- .14¾
5-pt. bots. extra, cs., c.l., works, frt. alld..lb. .16¼- —
5-pt. bots. extra, cs., l.c.l., same basis..lb. .17¾- .18¾
Sulfuric acid, fuming (oleum), 20%, tanks, works..ton.25.00 - —
40%, tanks, works.....ton.29.00 - —
65%, tanks, works.....ton.39.50 - —
Sumac leaves, 28% tannin, bgs., ex dock..ton.205.00 Nom.
28% tannin, grd., bgs., ex dock. ton.200.00 Nom.
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, c.l., Baltimore..unit-ton. .90 - .93
bulk, c.l., Carteret., N. J. unit-ton. .90 - .93
Superphosphate, triple, 46% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla..unit-ton. .98 - —
Sweet birch oil, USP, northern, cns..lb. 4.00 - 9.50
USP, southern, cns. .....lb. 2.10 - 3.05

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
dms., l.c.l., same basis.....lb. 1.25 - —
2,4,5-T isopropyl ester, dms., c.l., works, frt. equald..lb. 1.34 - —
dms., l.c.l., works.....lb. 1.29 - —
Talc, dom., fibrous, New York, grd., bgs., c.l., works..ton.28.00 - —
bgs., l.c.l., works.....ton.31.00 -36.00
Dom., fibrous, New York, 99.5%, 325 mesh, bgs., c.l., works. ton. 31.00 - —
bgs., l.c.l., works.....ton.34.00 - —
99.95% micronized, bgs., works. ton.38.00 - —
ord., Calif., grad., bgs., c.l., works..ton.34.00 -90.50
Vermont, off-color, grd., bgs., c.l., works..ton.19.40 - —
bgs., l.c.l., works.....ton.37.00 - —
Imp., Canadian, grd., bgs., c.l., mines..ton.20.00 -25.00
Tall oil, crude, dms., c.l., works..lb. .04¼- .04½
tanks, works.....lb. .02¾- .03
Dist., dms., c.l., works.....lb. .07¾- —
dms., l.c.l., works.....lb. .08 - .08½
tanks, works.....lb. .06 - .06½
Refd., dms., c.l., works.....lb. .06¾- —
dms., l.c.l., works.....lb. .07 - .07½
tanks, works.....lb. .05½- .06

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tanks, works.....lb. .08½- .10
dms., l.c.l. .....lb. .11 - .12½
Tall pitch, dms., c.l., works....ton.50.00 -70.00
tanks, works.....ton.40.00 - —
Tallow, edible, tanks, dlvd. .....lb. .10¾- .11
inedible, fancy, bleachable, tanks, dlvd..lb. .08¼- .08¼
fancy, guaranteed, dms., f.a.s. lb. .09½- —
No. 1, tanks, dlvd.....lb. .07¼- —
prime, tanks, dlvd.....lb. .07½- .08
special tanks, dlvd.....lb. .07⅝- .07¾
sulfonated, 25%, bbls., l.c.l..lb. .08¾- .09¼
50%, bbls., l.c.l.....lb. .10½- .11
Tallow acids, dist., dms. .....lb. .14 - .16½
tanks .....lb. .11½- —
Hydrogenated, dms. .....lb. .16 - .18½
Tallow oil, acidless, dms., c.l. ..lb. .14½- —
dms., l.c.l. .....lb. .15½- .17
Tangerine oil, Florida, dms....lb. 2.95 - 3.50
Tankage, animal, feeding, 9-11% ammonia, New York, bulk. unit-ton. 7.00 - —
Animal, feeding, 9-11% ammonia, Chicago, bulk unit-ton. 8.00 - —
Tannic acid, NF, fluffy, bbls., 1,000-lb. lots..lb. 2.05 - —
bbls., smaller lots .....lb. 2.06 - 2.10
Powd., bbls., 1,000-lb. lots...lb. 1.95 - —
bbls., smaller lots.....lb. 1.96 - 2.01
Tech., dms. .....lb. 1.05 - —
Tansy oil, dms. .....lb. 7.50 - 9.50
Tapioca flour, Brazilian, bgs., ex whse lb. .09 - .10
Siamese, first quality, same basis. lb. .07 - .07½
Tar acid oil, 15-18%, dms., c.l., frt. equald..gal. .53½- —
dms., l.c.l., same basis.....gal. .55½- —
tanks, same basis .....gal. .43½- —
25-28%, dms., c.l., same basis..gal. .60 - —
dms., l.c.l., same basis.....gal. .62 - —
tanks, same basis .....gal. .50 - —
50-53%, dms., c.l., same basis..gal. .75 - —
dms., l.c.l., same basis.....gal. .77 - —
tanks, same basis .....gal. .65 - —
Tar, coal (see Coaltar).
Tartar emetic (see Antimony potassium tartrate).
Tartaric acid, dom., NF, 230 or 250-lb. dms., c.l .lb. .49 - —
230 or 250-lb. dms., 10,000-lb. lots, 1 shipt .lb. .49½- —
230 or 250-lb. dms., smaller lots..lb. .50 - —
100-lb. dms. .....lb. .51 - —
Imp., NF, bgs., dms., kgs.....lb. .40 - .44
Terpine hydrate, NF, cryst., powd., 100-lb. fib. dms..lb. .70 - —
Terpineol, extra, dms. .....lb. .41 - .70
Prime, dms. .....lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .64 - .75
Prime, dms. .....lb. .53 - .56
Terpinyl propionate, dms. .....lb. 1.75 - 3.00
Terra alba (see Gypsum).
Testosterone, USP, bots. .....gram. No prices.
Testosterone proprionate, USP. gram. No prices.
Tetrachloroethane, dms., works..lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech. (see Perchloroethylene).
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works..lb. .20½- —
dms., l.c.l., works.....lb. .22 - .23½
Tetraethyl orthosilicate, dms., c.l., dlvd. E..lb. .60 - —
dms., l.c.l., dlvd. E. .....lb. .61 - —
Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald..lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E..lb. .53½- —
dms., l.c.l., dlvd. E. .....lb. .54½- —
tanks, dlvd. E. .....lb. .51 - —
Tetrahydrofuran, dms., c.l., t.l., works..lb. .36½- —
dms., l.c.l., or l.t.l., works ....lb. .37 - —
tanks, works .....lb. .35 - —
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .34½- —
dms., l.c.l., l.t.l., Memphis, Tenn. lb. .35½- —
dms., c.l., t.l., Newark, N. J. ...lb. .36½- —
dms., l.c.l., l.t.l., Newark, N. J. lb. .37½- —
tanks, dlvd. E. of Denver .....lb. .34 - —
tanks, dlvd. W. of Denver .....lb. .35 - —
Tetrapotassium phosphate (see potassium phosphate).
Thallium metal, dlvd. ..... lb. 7.50 -10.00
Thallium sulfate, 99%, bots., dlvd. lb. 5.00 -10.00
Theobromine, NF, fib. dms. ....lb. 4.50 - —
Theobromine and sodium acetate, USP, fib. dms..lb. 4.75 - —
Theobromine sodio-salicylate, NF, fib. dms lb. 3.90 - —
Theophyline, anhyd. or USP, 100-lb. dms..lb. 3.65 - —
Thiamin hydrochloride, USP, reg., fib. dms..kilo.40.00 - —
USP, ampule grade, fib. dms.kilo.42.00 - —
Thiamin mononitrate, USP, fib. dms kilo.40.00 - —
Thiocarbanilide, dms., ton lots..lb. .72 - —
dms., less ton lots .....lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thioflavin green toner, brilliant, molybdated, PMA., kgs., works..lb. 5.20 - —
Tungstated, PTMA, kgs., works. lb. 6.20 - —
Thioglycolic acid, refd., cbys., 100% basis..lb. 1.35 - 1.55
Thiosalicylic acid, purif., dms., 1,000-lb., lots, works lb. 4.00 - —
Thiourea, tech., bgs., t.l., frt. alld. lb. .30 - —
bgs., ton lots, same basis .....lb. .32 - —
bgs., less than ton lots, same basis. lb. .33 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots. kilo.275.00 - —
Thyme leaves, French, bgs. .....lb. .34 - —
Spanish, bgs. .....lb. .14 - —
Thyme oil, NF, red, cns., dms..lb. 2.00 - 2.25
white, cns. .....lb. 2.20 - 2.60
Tech., white, cns. .....lb. .40 - 1.85
Thymol, fib. dms. .....lb. 2.60 - 3.00
Thymol iodide, NF, dms. .....lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhyd.).
Tin crystals (see Stannous chloride, hydrous).
Tin metal (Straits) .....lb. .96½- —
Tin oxide (see Stannic oxide).
Tin sulfate (see Stannous sulfate).
Tin tetrachloride, anhyd. (see Stannic chloride anhyd.).
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd..lb. .25½- —
bgs., l.c.l., dlvd .....lb. .26½- —
reg., bgs., c.l., dlvd.....lb. .25½- —
bgs., l.c.l., dlvd .....lb. .26½- —
Titanium dioxide, anatase, metallurgical, nat., bgs., c.l., f.o.b. Jacksonville, Fla..ton.180.00 - —
bgs., 5-ton lots, Niagara, Falls, N.Y. ton.205.00 - —
bgs., ton lots, same basis. ton.215.00 - —
Milled metallurgical titanium dioxide $7.50 per ton higher.
Titanium dioxide, rutile, nonchalking, bgs., c.l., dlvd. E.lb. .27½- —
bgs., l.c.l., dlvd. E.....lb. .28½- —
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd..lb. .09¾- —
bgs., l.c.l., works .....lb. .09¾- —
50% Ti O_2, high-tinting, dms., c.l. lb. .14¾- —
dms., l.c.l. ....lb. .14⅞- —
Titanium hydride, powd., dms., works..lb. 8.10 - 9.00
Titanium tetrachloride, tech., dms., c.l., works..lb. .26 - —
dms., l.c.l., works .....lb. .27½- .29
tanks, works .....lb. .20 - —
Tobias acid, bbls., l.c.l.....lb. .81 - —
d-a-Tocopherols, mixed, NF, conc., pure basis, bots kilo.91.00 - —
di-a-Tocopherol, bots. .....kilo.134.20 - —
d-a-Tocopheryl acetate, NF, conc., pure basis, bots kilo.166.00 - —
d-a-Tocopheryl acid succinate, cryst., bots kilo.148.00 - —
dl-a-Tocopheryl acetate, bots... kilo.122.00 - —
25% dry, powd., bots..... kilo.30.50 -32.00
33⅓% dry, powd., bots ..... kilo.40.65 -42.50
o-Tolidine base, dry, kgs., 100% basis..lb. 1.50 - —
Paste, kgs., 100% basis .....lb. 1.45 - —

Toluol

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine hydrochloride, paste, kgs., 100% basis..lb. 1.45 - —
Tolu balsam, cns. .....lb. 3.10 - 4.35
Toluene coaltar indust., or nitration, tanks, dlvd. E. of Rockies....gal. .25 - —
Toluene, petroleum, indust., tanks, dlvd. E. of Rockies .gal. .25 - .32
p-Toluenesulfonamide, powd., dms., works lb. .70 - —
p-Toluenesolfonic acid, dms., c.l., t.l., works lb. .17 - —
dms., l.c.l., works .....lb. .18 - —
p-Toluenesulfonic acid monohydrate, dms., c.l. or t.l. lb. .90 - —
dms., 125 lbs. to t.l.....lb. 1.00 - —
m-Toluidine, dms., c.l., works, frt. alld..lb. .79 - —
dms., l.c.l., same basis .....lb. .80 - —
tanks, same basis .....lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld..lb. .27 - —
dms., l.c.l., same basis .....lb. .28 - —
tanks, same basis .....lb. .25 - —
p-Toluidine, flake, dms., frt. alld lb. .54 - —
Solid, dms., frt. alld. .....lb. .50 - —
p-Toluidine-m-sulfonic acid, bbls., works lb. .92 - 1.04
Toluidine, red toner, deep shades, kgs., works lb. 1.70 - —
Light shades, kgs., works. .....lb. 1.70 - —
2,4-Tolylenediamine, cryst., fib. dms., l.c.l., frt. alld..lb. 1.10 - —
Tonka beans, Angostura, cks. ..lb. No prices.
Brazilian, Surinam, cs. .....lb. 1.35 - —
Totaquine 100-oz. lots, cns. .....oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .22 - —
dms., l.c.l., l.t.l., works .....lb. .28 - —
Tragacanth gum, No. 1, ribbons, cs..lb. 3.50 - 4.50
No. 2, cs. .....lb. 3.40 - —
Trogacanth gum, No. 3, cs. .....lb. 3.00 - 3.10
USP, powd., bbls. .....lb. 1.25 - 1.38
Triacetin, dms., c.l., dlvd. E. of Rockies..lb. .39 - —
dms., l.c.l., same basis. .....lb. .40 - —
tanks, same basis. .....lb. .37 - —
Triallylamine, dms., c.l., dlvd. ..lb. .985 - —
dms., l.c.l., dlvd. .....lb. .995 - —
tanks, dlvd. .....lb. .96 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver. lb. .42½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver..lb. .43½- —
tanks, frt. alld. E. of Denver..lb. .40 - —
Tributyl phosphate, dms., c.l., works. lb. .52½- —
dms., l.c.l., same basis. .....lb. .53½- —
tanks, same basis. .....lb. .50 - —
Tributylamine, dms., c.l., works..lb. .67½- —
dms., l.c.l., same basis. .....lb. .68½- —
tanks, same basis. .....lb. .65 - —
Trichloroacetic acid, bots. .....lb. 2.00 - 2.50
Trichlorobenzene, dms., c.l., frt. alld. E..lb. .15 - —
dms., l.c.l., frt. alld. E. .....lb. .16 - —
tanks, frt. alld. E. .....lb. .13¼- —
Trichlorobenzene prices in the West 1¾c. higher.
1,1,1-Trichloroethane, dms., c.l., dlvd. lb. .13¾- —
dms., l.c.l., dlvd. .....lb. .16¾- —
tanks, dlvd. .....lb. .12¾- —
1,1,2-Trichloroethane, dms., c.l., works..lb. .13½- —
dms., l.c.l., dlvd. E. .....lb. .14¼- —
tanks, works .....lb. .11½- —

The lighter side of paint . . . of paint manufacturing, that is : : : is no joke. It's sometimes tougher than our painter's job of trying to match milady's big blue eyes.

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TITANIUM PIGMENT CORPORATION

Subsidiary of NATIONAL LEAD COMPANY

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Trichloroethylene, dms., c.l., cr t.l., works, frt. equald..lb. .13 - —
dms., l.c.l., frt. alld. .....lb. .15 - .16¾
tanks, works, frt. equald. .....lb. .12 - —
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .35 - —
dms., l.c.l., dlvd. .....lb. .36 - —
tanks, dlvd. .....lb. .32½- —
Petroleum, dms., c.l., dlvd. ...lb. .34½- —
dms., l.c.l., dlvd. .....lb. .35½- —
tanks, dlvd. .....lb. .32½- —
Tridecyl alcohol, mixed isomers, dms., dlvd..lb. .26½- —
dms., l.c.l., dlvd. .....lb. .27½- —
Triethanolamine, dms., c.l., dlvd. E. lb. .24½- —
dms., l.c.l., same basis.....lb. .25½- —
tanks, same basis .....lb. .22 - —
Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld..lb. .24 - —
dms., l.t.l., frt. alld. .....lb. .25 - —
tanks, frt. alld. .....lb. .23 - —
Triethylamine, dms., c.l., works, dlvd. E..lb. .50 - —
dms., l.c.l., same basis.....lb. .51 - —
tanks, same basis .....lb. .47½- —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver..lb. .46¼- —
non-ret. dms., l.c.l., frt. alld. E. of Denver..lb. .47¼- —
tanks, frt. alld. E. of Denver lb. .43¾- —
Triethyl phosphate, dms., c.l., dlvd. lb. .40½- —
Triethyl phosphate, dms., l.c.l., dlvd. lb. .41½- —
tanks, dlvd. .....lb. .38 - —
Triethylene glycol, dms., c.l., dlvd. E..lb. .21 - —
dms., l.c.l., dlvd. E. .....lb. .22 - —
tanks, same basis .....lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E..lb. .51½- —
dms., l.c.l., dlvd. E. .....lb. .52½- —
tanks, dlvd. E. .....lb. .49 - —
Tri-isopropanolamine, dms., c.l., dlvd. E..lb. .23¼- —
dms., l.c.l., dlvd. E. .....lb. .24¼- —
tanks, dlvd. E. .....lb. .20¾- —
Trimethylamine, anhyd., cyls., l.c.l., frt. equald, 100% basis..lb. .30 - .305
tanks, same basis .....lb. .26 - —
25-40% soln., dms., c.l., works, frt. equald, 100% basis..lb. .35 - —
dms., l.c.l., works, frt. equald., 100% basis lb. .35½- —
tanks, works, frt. equald, 100% basis..lb. .26 - —
Trioxane, pure, dms., c.l., t.l., works. lb. .50 - —
dms., l.c.l., works.....lb. .51½- —
Tripentaerythritol, c.l., t.l., dlvd. E. lb. .38 - —
bgs., l.c.l., l.t.l., dlvd. E. .....lb. .39 - —
Triphenyl phosphate, bbls., c.l., frt equald..lb. .41½- —
bbls., l.c.l., frt. equald.....lb. .43½- —
Triphenylguanidine, bbls., works.lb. .90 - —
tanks, same basis.....lb. .18½- —
Tripropylene glycol, dms., c.l., t.l., frt. alld. E..lb. .21 - —
dms., l.c.l., l.t.l., frt. alld. E..lb. .22 - —
Tripropylene glycol, tankcars and compartmented tankcars, frt. alld. E..lb. .18½- —
tankwagons and compartmented tankwagons, 1,000 gals., min. frt. alld. E..lb. .19 - —
Tripropylene glycol prices 1c. per lb. higher in West.
Trisodium phosphate (see Sodium phosphate tribasic).
dl-Tryptophane, fib., dms., works. lb.55.00 - —
Tung oil, dms., c.l., New York..lb. .22½- —
dms., l.c.l., New York.....lb. .22⅝- .22⅝
tanks, New York .....lb. .20⅝- —
tanks, domestic mills .....c.lb. .21 Nom.
Tungsten metal, powd., 2.0-2.5 microns, dms., works lb. 3.73 - —
Tungstic acid, tech., dms., 1,000-lb. lots, works..lb. 2.15 Nom.
dms., smaller lots, works...lb. 2.30 Nom.
Turkey red, bbls., works .....lb. .62 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Turpentine oil, NF, cns., dms..lb. .28 - .50
Tuscan red, bbls., frt. equald. ..lb. .26 - .32
Tyrothricin, USP, bots. .....gram. .55 - .58

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., dlvd. E. of Rockies..lb. .35 - .39½
Ultramarine blue, jobbing types, bbls., same basis..lb. .19 - —
Regular types, dry bbls., same basis lb. .22½- .35
Ultramarine blue prices 1c. higher W. of Rockies.
Umber pigment, burnt, American, bgs., c.l., works..lb. .07½- .07¾
bgs., l.c.l., works.....lb. .07¾- .08
Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. ..lb. .08¼- —
Umber pigment, raw, American, bgs., works..lb. .07¾- .08¼
Turkey-type, bgs., works....lb. .08½- .08¾
Undecylenic acid, dms. .....lb. 1.45 - —
Unicorn root, false (see Helonias root).
Unicorn root, true (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton.125.00 - —
bgs., l.c.l., dlvd. E. ex whse. ton.145.00 - —
45% N, agricultural, bgs., c.l., (30 tons) dlvd. E ton.110.00 - —
Urea-ammonia liquor, A and B grades, N basis, tanks, Belle, W. Va ton.126.00 - —
C grade, tanks, same basis ton.124.50 - —
37 grade, tanks, same basis ton.153.00 - —
Urethane, USP, dms., t.l., f.o.b., works..lb. .65 - —
dms., l.t.l., same basis.....lb. .70 - —
Uva-ursi leaves, bls. .....lb. .17 - .19

V

Valerian root, Belgian, bgs. ....lb. .35 - —
Indian, bgs. .....lb. .29 - —
dl-Valine, dms., works.....lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.88.00 -90.00
Valonia cups, 28-30% tannin, bgs., ex dock ton.66.00 -67.00
Valonia extract, powd., 63% tannin, bgs., ex dock..lb. .11 - —
Vanadium pentoxide, tech., dms., works..lb. 1.28 - 1.33
Vandyke brown, bbls., works...lb. .09½- .12
Vanilla beans, Bourbon, tins...lb.10.40 -10.80
Mexican, cuts, tins.....lb.10.40 -10.80
whole, tins.....lb.10.50 -10.70
Tahiti, cs. .....lb. 8.20 - —
Vanillin, ex lignin, 100-lb. fib. dms., 1,000-lb. lots or more..lb. 3.00 - —
100-lb fib. dms., 500-lb. lots..lb. 3.10 - —
100-lb fib. dms., 100-lb. lots lb. 3.25 - —
Venetian red, jobbing, bgs., works. lb. .0475- —
20%, bgs., works .....lb. .0525- —
25%, bgs., works .....lb. .0575- —
30%, bgs., works .....lb. .06 - —
35%, bgs., works .....lb. .0625- —
40%, bgs., works .....lb. .0675- —
Vetiver oil, Bourbon, cns. .....lb.11.25 -15.50
Haitian, cns. .....lb.10.50 -12.00
Java, cns. .....lb.11.75 -12.25
Victoria blue toner, molybdated, PMA, 250-lb. bbls., dlvd. E. of Rockies..lb. 4.50 - —
Victoria blue toner, bbls., prices 1c. higher W. of Rockies.
Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., dlvd..lb. .20 - —
55-gal. dms., l.c.l., dlvd. ....lb. .21 - —
tanks, dlvd. .....lb. .17½- —
tanktrucks less than 4,000 gal., dlvd..lb. .18 - —
Zone 2, 55-gal. dms., c.l., dlvd..lb. .21 - —
55-gal. dms., l.c.l., dlvd. .....lb. .24 - —
tanks, dlvd. .....lb. .18½- —
tanktrucks, less than 4,000 gals., dlvd..lb. .19 - —
Zone 1 is all continental U. S. except Zone 2. Zone 2 comprises Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.
Vinyl n-butyl ether, tech., dms., l.c.l., works lb. .50 - —
Vinyl chloride monomer, tanks, works..lb. .11 - .128
Vinyl ether, tech., dms., c.l., works. lb. .26 - —
dms., l.c.l., works .....lb. .28 - —
tanks, works .....lb. .25 - —
Vinyl ether, USP, anesthesia, bots., 50cc., hospitals..bot. 1.12 - —
bots., 75cc., hospitals.....bot. 1.56 - —
Vinyl ethyl ether, tech., dms., c.l., works..lb. .29¼- —
dms., l.c.l., works .....lb. .30 - —
tanks, works .....lb. .27¼- —
Vinyl methyl ether, cyls., works..lb. .30 - —
Cylinders are sold outright, or if shipped against deposit, a free period of sixty days is allowed; and if empties are returned prepaid and in good condition within that period full refund is made.
Vinyl propionate monomer, dms., c.l., dlvd..lb. .49½- —
dms., l.c.l., same basis .....lb. .50½- —
tanks, same basis .....lb. .47 - —
Vinyl trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works..lb. 1.30 - —
1 to 9 dms., works .....lb. 1.45 - —
tanks, works .....lb. 1.25 - —
Vinyltoluene, dms., c.l., f.o.b., works. lb. .16 - —
dms., l.c.l., same basis .....lb. .18 - —
tanks, same basis .....lb. .13½- —
Viosterol, in nat. vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .02½- —
Virginia type red, bbls., works..lb. 1.40 - —
Vitamin A acetate, syn., cryst., beads, 500,000 A units per gram..gram. .07¼- —
dry, 500,000 units per gram, kilo lots..kilo.67.50 - —
325,000 units per gram, same basis..kilo.43.88 - —
850,000 units per gram, same basis..kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
Vitamin A, liq. in oil, 1,000,000 A units per gram, 1,000,000 units .10 - —
Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram..1,000,000 units. .10 - —
Liq. in oil, 1,000,000 A units per gram..1,000,000 units. 10 - —
Vitamin B_1 (see Thiamine hydrochloride).
Vitamin B_2 (see Riboflavin and Yeast).
Vitamin B_{12}, cryst., 1-50 grams, vials, tins..gram.190.00 - —
Oral grade solids, in containers of 1 and 10 grams of B_{12} activity. gram.160.00 - —
0.1 percent trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10..kilo.218.00 - —
Vitamin C (see Ascorbic acid).
Vitamin D (see Codliver and Fish-liver oils, Calciferol and Viosterol).
Vitamin D_2, dry, 850,000 units per gram, kilo lots..kilo.42.50 - —
850,000 units per gram, less than kilo lots..kilo45.00 - —
Vitamin E (see a-Tocopherol and Wheat germ oil).
Vitamin G (see Riboflavin).
Vitamin H (see Biotin).
Vitamin K, active (see Menadione).
Vitamin K_1, 25 gram bots....gram. 4.50 - —
Violet methyl toner (see Methyl violet toner).
VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root, bark, bls. .....lb. 2.10 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd..lb. 1.95 - —
dms., 25-49-lb. lots, New York or Chicago..lb. 2.05 - —

TC TENNESSEE CORPORATION

INDUSTRIAL CHEMICALS

We mine Copper, Sulfur, Iron and Zinc and are basic producers of their chemical derivatives. Our technical know-how and basic position in these minerals is your assurance of exacting quality control, strict uniform consistency and a plentiful supply.

COPPER

COPPER SULFATE
Industrial Crystals and all common grades.

MONOHYDRATED COPPER SULFATE
35% Copper as metallic packaged in steel drums at no extra cost.

COPPER CARBONATE
55% Copper as metallic. Light and dense grades.

CUPRIC CHLORIDE
37% Copper as metallic. Available in polyethylene-lined drums or bags.

CUPRIC OXIDE
Minimum 76% Copper as metallic. Technical grade . . . NOT A BY-PRODUCT.

SULFUR

SULFURIC ACID
Various strengths and grades 40° through the Oleums. Available in tank cars or tonnages.

LIQUID SULFUR DIOXIDE
Highest commercial quality, available in tank cars, tank wagons, ton cylinders and 150-lb. cylinders.

CHLOROSULFONIC ACID
Iron less than 1.0 ppm as loaded. Water white. Delivered in glass-lined tank wagons, also in stainless steel drums.

SODIUM HYDROSULFITE
T-C HYDRO is a dry, white, free flowing, crystalline powder of uniform particle size and structure. It is dust free, assuring highest stability and uniformity.

PARA TOLUENE SULFONIC ACID, ANHYDROUS
Other organic Sulfonic Acids.

IRON

FERRIC IRON SULFATE
Partially hydrated, free flowing granular form. Available in bags or bulk.

ZINC

MONOHYDRATED ZINC SULFATE
36% Zinc as metallic. White, free flowing powder.

ZINC OXIDE
Secondary Zinc Oxide.

MANGANESE

MANGANESE SULFATE
Designed specifically for inclusion in mixed fertilizer.

MONOHYDRATED MANGANESE SULFATE
31% Mn, 30., H.O. Highest purity, technical grade . . . NOT A BY-PRODUCT.

MANGANOUS OXIDE
Minimum 48% Manganese as metallic. Feeds, fertilizers, spray or dust grades.

Samples, specifications and detailed information upon request.

TC TENNESSEE CORPORATION
TENNESSEE CORPORATION
617-628 Grant Building, Atlanta 3, Georgia

Warfarin, 0.5%, cns., 5-24-lb. lots, New York or Chicago . . lb. 2.15 - —
Watchung-type reds, bbls. . . . . lb. 1.93 - —
Wattle bark, fair average, African, bls., ex dock . . ton.68.00 - —
Merchantable, bls., ex dock . . ton.64.00 - —
Wattle extract, liq., 35% tannin, bbls lb. .08¼- .08½
Solid, East Africa, 60% tannin, bgs., ex dock lb. .0827½ —
South Africa, 60% tannin, bgs., ex dock lb. .0840- —

Waxes

Wax quotations are listed individually. For example, prices on Wax carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms . . . gal.12.25 - —
Wheat starch (see Starch, wheat).
White lead (see Lead, white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls . . lb. .18 - .19
White precipitate, USP, powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls lb. .18 - —
Thin, rossed, bls. . . . . lb. .21 - —
Wintergreen oil, USP, nat., northern, cns lb. 6.35 -17.50
USP, nat., southern, cns. . . . lb. 3.75 - 7.00
Wintergreen oil, syn. (see Methyl salicylate).
Witch hazel bark, bls. . . . . lb. .16 - .17
Witch hazel leaves, bls. . . . . lb. .22 - —
Wollastonite, fine, bgs., c.l., works. ton.39.50 - —
bgs., l.c.l., ex whse. . . . . ton.56.00 - —
Medium, bgs., c.l., works . . . ton.27.00 - —
bgs., l.c.l., ex whse. . . . . ton.44.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat, crude (see Degras).
Woolfat, USP (see Lanolin).
Wormseed, Levant, bgs. . . . . lb. 4.25 - 4.50
Wormseed oil (see Chenopodium oil, NF).
Wormwood oil, cns. . . . . lb. 4.90 - 5.85

X

Xylene, coaltar, indust., tanks, works:
Bethlehem, Pa. . . . . gal. .29 - —
Birmingham dist. . . . . gal. .29 - —
Chicago dist. . . . . gal. .29 - —
Cleveland dist. . . . . gal. .29 - —
Geneva, Utah . . . . . gal. .29 - —
Johnstown, Pa. . . . . gal. .29 - —
Lackawanna, N. Y. . . . . gal. .29½- —
Lone Star, Tex. . . . . gal. .27 - —
Lorain, Ohio . . . . . gal. .29 - —
Middletown, Ohio . . . . . gal. .30 - —
Minnequa, Col. . . . . gal. .29 - —
Philadelphia dist. . . . . gal. .29 - —
Pittsburgh dist. . . . . gal. .29 - —
Sparrows Point, Md. . . gal. .29 - —
Terre Haute, Ind. . . . . gal. .29 - —
Youngstown, Ohio . . . . . gal. .29 - —
Xylene, petroleum, indust., tanks, f.o.b. works:
Bayonne, N. J. . . . . gal. .29 - —
Baytown, Tex. . . . . gal. .27 - —
Charleston, S. C. . . . . gal. .29 - —
Chicago, Ill. . . . . gal. .30 - —
Houston, Tex. . . . . gal. .27 - —
Philadelphia, Pa. . . . . gal. .29 - —
Providence, R. I. . . . . gal. .30 - —
Sewell's Point, Va. . . . . gal. .28 - —
Wood River, Ill. . . . . gal. .29 - —
Xylenol, cryst., 45°-47° C., m.p., dms., l.c.l., works lb. .22 - —
56°-58° C., m.p., dms., l.c.l., works, frt. equald lb. .33 - —
60°-62° C., m.p., dms., l.c.l., same basis lb. .40 - —
Xylenol fraction, b.r. 7°-9° C., dry above 227° C., dms., c.l., same basis gal. 1.25 - —
dms., l.c.l., same basis gal. 1.30 - —
tanks, same basis . . gal. 1.05 - —
Xylenol fraction, b.r. 7°-9° C., dry at or below 227° C., dms., c.l., same basis gal. 1.35 - —
dms., l.c.l., same basis gal. 1.40 - —
tanks, same basis . . . gal. 1.15 - —
Xylidines, mixed, o-m-p., dms., c.l., or t.l., works lb. .39 - —
dms., l.c.l., same basis . . . . . lb. .40 - —
tanks, same basis . . . . . lb. .38 - —

Xylol

Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns. . . . . lb. 2.15 - 3.03
Yeast, brewers, debittered, USP, Sacchomyces, dlvd lb. .27 - —
Dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb. dms lb. .60 - —
Torula, USP, dlvd . . . . . lb. .18 - —
Yerba santa leaves, bls. . . . . lb. .40 - .42
Ylang-ylang oil, Bourbon, bots. . lb.19.00 -25.00

Yellow Pigments

Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow.

Ylang-ylang oil, Bourbon, extra, bots. lb.28.00 -40.00
Madagascar, bots. . . . . lb. No Stocks.
Yohimbine hydrochloride, bots., tins. oz. 4.75 - 5.25

Z

Zein, bgs., 36,000-lb. lots or more, f.o.b. plant lb. .38 - —
bgs., 500-lb. lots or more, dlvd. lb. .343 - —
bgs., smaller lots, dlvd. . . . . lb. .373 - —
Zinc acetate, NF, VIII, dms. . . . lb. .33 - —
Tech., dms., l.t.l., works . . . . . lb. .29¼- —
Zinc borate, bgs., 1,000 lbs. or more, works lb. .32 - —
bgs., less than 1,000 lbs., same basis lb. .36 - —
Zinc chloride, NF, gran., dms. lb. .42 - —
Precip., powd., dms . . . . . lb. .26 - —
Soln., 50%, dms., c.l., works, 100 lbs. 5.80 - —
dms., l.c.l., works . . . 100 lbs. 6.40 - —
tanks, works . . . . . 100 lbs. 5.15 - —
Zinc chloride, tech., fused, dms., c.l., works . . 100 lbs.10.70 - —
dms., l.c.l., works . . . 100 lbs.11.20 - —
gran., fib dms., c.l., works. 100 lbs.11.45 - —
fib. dms., l.c.l., works . 100 lbs.11.95 - —
Zinc chromate, bbls., dlvd. . . . . lb. .29 - —
Basic, bbls., dlvd. . . . . lb. .34 - —
Zinc cyanide, dms., 1,000-lb. lots or more, works lb. .55 - —
dms., smaller lots, works . . . . lb. .57 - —
Zinc dust, coml., bbls., c.l., works. lb. .1360- —
Pigment, bbls., c.l., works . . . lb. .14 - —
bbls., l.c.l., works . . . . . lb. .15 - —
Zinc fluoride, bbls., works . . . lb. .49 - .50
Zinc hydrosulfite, dms., c.l., frt. alld lb. .21½- —
dms., l.c.l., frt. alld. . . . . lb. .23½- —
Zinc metal, prime western, slabs, E. St. Louis lb. .1050- —
Prime western, slabs, New York. lb. .11 - —
Zinc naphthenate, liq., 8% Zn., dms., frt. alld lb. .27 - —
10% Zn., dms., frt. alld lb. .33 - —
Zinc nitrate, tech., cryst., bbls., works lb. .20 - —
Zinc oxide pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14½- —
bgs., l.c.l., same basis . . lb. .15½- —
Zinc oxide pigment, American process, leaded, 35%, bgs., c.l., mills, frt. alld lb. .15½- —
bgs., l.c.l., same basis . . lb. .16½- —
50% bgs., c.l., same basis lb. .15⅝- —
bgs., l.c.l., same basis . . . lb. .16⅜- —
Zinc oxide pigment, French process, green seal, bgs., c.l., mills, frt. alld. lb. .16¼- —
bgs., l.c.l., same basis lb. .17¼- —
red seal,, bgs., c.l., same basis, lb. .15¼- —
bgs., l.c.l., same basis lb. .16¼- —
white seal, bgs., c.l., same basis, lb. .16¾- —
bgs., l.c.l., same basis lb. .17¾- —
USP, ctns., c.l., frt. alld . . . . lb. .17¼- —
ctns., l.c.l., same basis . . . . lb. .18¼- —
Zinc oxide, Pac. Coast prices 1c. higher.
Zinc phenolsulfonate, NF, gran., dms lb. .44 - .45
NF, powd., dms. . . . . lb. .47 - .48
Zinc resinate, precip., 7.2-7.6% Zn., dms., frt. alld lb. .36¼- —
Zinc silicofluoride, dms., works lb. .12½- .14
Zinc stearate, tech., USP, ctns., c.l., lb. .41 - —
Zinc sulfate, powd., monohydrate, ctns., l.c.l. . . . . lb. .42 - .46
36% Zn., bgs., c.l., dlvd. E 100 lbs. 8.75 - —
bgs., l.c.l., dlvd. E 100 lbs. 9.75 - —
USP, gran., dms. . . . . lb. .26 - —
Zinc sulfate in bbls. 40c. higher.
Zinc sulfide, pure, bgs., c.l., dlvd. lb. .2530- —
Zinc undecylenate, dms. . . . . lb. 2.00 - —
Zinc yellow (see Zinc chromate).
Zinc-ammonium chloride, bgs., c.l., works . . 100 lbs.10.25 - —
bbls., c.l., works . . . . . 100 lbs.10.85 - —
bbls., l.c.l., works . . . . . 100 lbs.11.35 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. . . lb. .25½- —
dms., l.c.l. . . . . lb. .26 - —
Zircon (G), gran., bgs., c.l., works, lb. .03½- —
bgs., 5 tons to c.l., works lb. .03⅝- —
bgs., 1 ton to 9,999-lb. lots, works lb. .04 - —
bgs., smaller lots, works . . . lb. .06½- —
Milled, bgs., c.l., works . . . . lb. .04½- —
bgs., 5 tons to c.l., works . . lb. .04⅝- —
bgs., 1 ton to 9,999-lb. lots, works lb. .04¾- —
bgs., 500-1,999-lb. lots, works lb. .07½- —
Zircon (G) in barrels 1c. higher.
Zirconium acetate, 13% soln., ZrO_2, c.l., 30,000 lbs. minimum, works lb. .23 - —
Zirconium hydride, powd., dms., works lb. 7.25 - 9.00
Zirconium oxide, CP, white, grd., bbls. or bgs., works lb. 1.50 - —
Electric-fused, lump, bgs., 500 to 1,999-lb. lots, works lb. .45½- —
bgs., smaller lots, works . . lb. .48 - —
milled, bgs., c.l., works . . . . lb. .59 - —
bgs., 5-ton lots, works . . . lb. .59½- —
bgs., 1-ton to 9,999-lb. lots, works lb. .60 - —
bgs., 500 to 1,999-lb. lots., works lb. .60½- —
bgs., smaller lots, works lb. .63 - —
Glass polishing grade, 94-97% ZrO_2, bgs., works . . lb. .53 - .65
Opacifier grade, 85-90% ZrO_2, bgs., lb. .27 - .50
Stabilized oxide, 91% ZrO_2, milled, bgs lb. .62 - .85
Zirconium oxychloride, cryst., ctns., 5-ton lots, works . . . . . lb. .35½- —

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Volume. 174 October 20, 1958 No. 17

Distribution Is Getting Attention

The second factor in that fundamental economic equation — "Production plus Distribution equals Prosperity"—is beginning to get some measure of the attention which it deserves. Distribution is at least as essential as production; but it has not been evaluated in anything like such a relativity. Perhaps it will be, now that recognition of its importance is getting some manifestation.

Insofar as it has progressed, the long overdue giving of attention to distribution is mainly directed toward its promotive aspects—selling and advertising on a national scale. Obviously it will take time to get it to the community level and to the operations of distribution in contact with the consumer. But, that will come, and the result will be good for all participants.

There is such a diversity of ideas—and philosophies—among those who are becoming attentively distribution-conscious that progress must be expected to be slow—in large part a process of trial and error—especially because of the important weight of human relations in all distributive functioning. The field is so broad and so extensively dissimilar that the construction and application of anything like fixed rules of practical procedure would be impossible. There is no other area of human activities in which circumstances can have a stronger effect for the altering of cases.

The progressing attention to distribution is getting two very promising applications this week. One of them will be in a relatively small but economically very important area at the seventh chemical sales clinic in New York, which will take place today under the sponsorship of the Salesmen's Association of the American Chemical Industry. That clinic will cover the needs for, the services by, and the potentialities of selling from the viewpoints of producer, seller, and buyer (details were given in OPD October 6, page 7). It should contribute very usefully to the prosperous progress of the American chemical industry. Its proceedings in the utmost practicable detail should be distributed (another excellent service of distribution) throughout the industry by the Manufacturing Chemists' Association.

This week's other contribution to the commendable progress in giving distribution the attention it deserves will be on a much broader scale—worldwide in fact. It will be made today and tomorrow at the annual Boston Conference on Distribution, sponsored by the Greater Boston Chamber of Commerce with the cooperation of the eminent schools of business of some two score or more universities and similar educational institutions in this country and Canada. The announcement has said that the conference (it will be the thirtieth) will be addressed by "twenty-seven distinguished speakers from this country, Canada, Great Britain, France, Italy, and Sweden." Under today's conditions and circumstances in the competition for world trade, that should be a notable attraction. It certainly should be a most useful contribution toward the proper and essential recognition of the economic value of distribution, which converts the asset provided by production into profit for the producer and service for the consumer.

The proceedings of the Boston conference should be given the widest most complete circulation at all business levels by the National Association of Manufacturers and the Chamber of Commerce of the United States.

Science for What

Science has become so popular as a topic for something or other at all levels of all sorts of knowledge in all areas of society that it must have been at least depressing for many folks to learn that there will be no dinner for scientists in the schedule of the White House 1958-59 social season. There probably has been some depressing also by recent pronouncements that, in following Soviet "scientific" paths, the United tates is going backward, not forward, in desirable scientific attainments. So, there must arise a question as to the why of science.

That question got several sorts of light—not all illuminating—cast upon it in recent days. One source was the unsuccessful effort to send a rocket to the moon—a gigantic scientific endeavor at a gigantic cost, but of no more service to humanity than the noisy setting off of a firecracker. Along about the same time came the starting of a series of nationwide wireless casts designed to stimulate interest in science and to encourage schoolagers to seek careers in one or another of its many areas. What effect that will have upon the quite prevalent "scientific" interest in making rockets, bombs, missiles, and such like—with ignorantly, accidently resultant injuries and damages of all kinds—may readily be guessed at.

Not all the publicity-getting aspects of interest in science during the period have been of such a nature. There really is another side to that interest. The Overbrook Foundation opened a natural science center in a woodland at Stamford, Connecticut. It is designed to stimulate the curiosity of children about how the world was made —not how it may be wholly devitalized. By means of exhibits and modern technics, it will endeavor to instill knowledge in children, through demonstrations and direct handling and study, of the nature and identification of natural specimens or models of members of the local and gradually expanded animal, vegetable, and mineral kingdoms.

Local programs of a similar nature would well and wisely be encouraged throughout the United States—including Alaska—under the functioning of the recently created federal Outdoor Recreation Resources Review Commission. A million dollars for such promotion of interest in natural science would do the human race much more needed good than would a billion spent for development of super-destructive "scientific" knowledge and equipment.

One of the best recent movements having to do with science was the science-for-peace proposal made to the social committee of the UN General Assembly by the foreign minister of Australia. It calls for a survey to ascertain what should be done by that organization to encourage the concentration of scientific efforts upon the most urgent problems in the peaceful application of science in accordance with the particular needs of the various countries. Such a program would demand a carefully planned practically applicable coordination of all the divisions of natural, social, and physical science. There can be no doubt that such an alliance could have a most desirable potentiality. It could do much beneficially for human welfare if developed and applied at all levels and in all areas of education and all other public services—even if it did no more than get interest in science down out of outer space to what is needed all over the surface of the earth by and for the welfare of humanity.

For Farm-City Alliance

The farmer and the city-dweller are closely interdependent for survival. They should know one another much better than they do, especially with respect of their respective problems and conflicting appraisals thereof—not necessarily including the ruralite's concern over the destruction of his growing crops by the increasing deer population and the urbanite's concern over the farmer's reluctance to permit him to tramp all over the place, leaving gates open, looking for a shot at a deer or something.

The farmer and the city-dweller can help one another in their respective important problems, especially that of getting into agreement on what the former can willingly do to meet the latter's ideas on what he should get in the way of farm food, in what form it should be readily available to him, and what he should pay for it.

So it is that there is a big reason why there should be a hearty move by both of them toward getting together in thinking and acting. In consequence, there should be a working interest on both sides in making adequate proper utilization of Farm-City Week, scheduled this year for November 21 to 27. Development of that ooportune event is well on the way to what is expected to make it the best yet. But, there is much more that can be done on the city side. Its doing will be of much better service in both directions than can all the present system of federal support and control and collection and storage and so on and on, which, although being eased off 17 percent from the previous level, cost the pavers of federal taxes something more than a billion dollars in the fiscal year ended with June 30, last. The government's (taxpayers') investment in farm surpluses also went down a little during the year, totaling $7,029,695,000, against $7,338,081,000 in the previous year. Those figures cover crops in government hands and those covered by price-support loans. Wheat and corn share about equally in making up more than 67 percent of the latest year's total, which, even in these days of billions, is something to think about—and work upon.

It has well been said that the real problem of surplus crops is to get the piled-up foodstuff from where it is to where it is needed. It is doubtful that such an objective could be reached by any alliance between farmer and city-dweller, because, for one thing, politics has too big a part in what is now so expensively being done. But, there is much, even with respect of crop surpluses, that can be done by way of Farm-City Week procedures. And what would thus be done would mean at least a trimming of the federal financial deficit—it could mean much more.

An abundance of helpfully informative material on the arranging and celebrating of Farm-City Week is available. Included in its expansive scope is a pamphlet on "Industries and Businesses — What They Can Do," priced at 2 cents a copy in quantities for adequate promotive circulation. Information on the material, on state and district organization personnel, and on other aspects of the coming event in mutual-service — national-service—collaboration of the rural and urban "partners in progress" are available from the secretary of the National Farm-City Committee, care of Kiwanis International, 520 North Michigan avenue, Chicago 11, Ill.

Washington Talks It Over

Tax Aid Talk Not All Electioneering, Chemical Men Told; Nixon, Summerfield Speeches Point to Administration Help.

By Ralph L. Cherry
Chief, OPD Washington Bureau

There is reason to believe that the administration may be planning some major tax recommendations to congress next year in the direction of easing the burdens of both individuals and corporations.

While it is true that at this particular time much of the talk coming out of Washington is tainted with politics as the fall campaign swings into high gear, when two such important personages as Vice-President Nixon and Postmaster General Summerfield call for major tax reforms this talk cannot be entirely disregarded.

Mr. Nixon called for an overhaul of the tax structure in a speech last month at Harvard. Specifically, he advocated more liberal treatment of depreciation for business taxation purposes to stimulate risk-taking and investment in new plants and equipment.

Mr. Summerfield followed up last week with a call for major tax reforms to meet the communist challenge. He urged "tax reform in progressive stages over several years" which would have these goals: a cut in individual taxes; a cut in corporate taxes, and corresponding cuts in capital gains, estate, gift and excise taxes.

"Such a program is today under consideration," he said.

The Russian challenge that must be met by tax reform is the fact that Soviet economic growth has risen to about 8 percent a year or nearly triple that of the United States. It means that Russia's total production rate will equal about 50 percent of ours in six years; 75 percent in thirteen years and 100 percent in 1980.

USDA Research Abroad

A new program of research in foreign countries is being inaugurated by the Department of Agriculture that can prove of tremendous value in the future to American agriculture and industry. Expanded markets for agricultural products, more productive forests, new crops for US growers, and greater capability of warding off possible future invasions of foreign diseases and insect pests are among the benefits anticipated.

The research will be paid for with foreign currencies piling up in the various countries to the account of the United States from the sale of surplus agricultural commodities under public law 480, which congress has extended for another two years. Some foreign research has actually started on utilization studies, while programs of research on farm production, forestry and marketing are still in the planning stage.

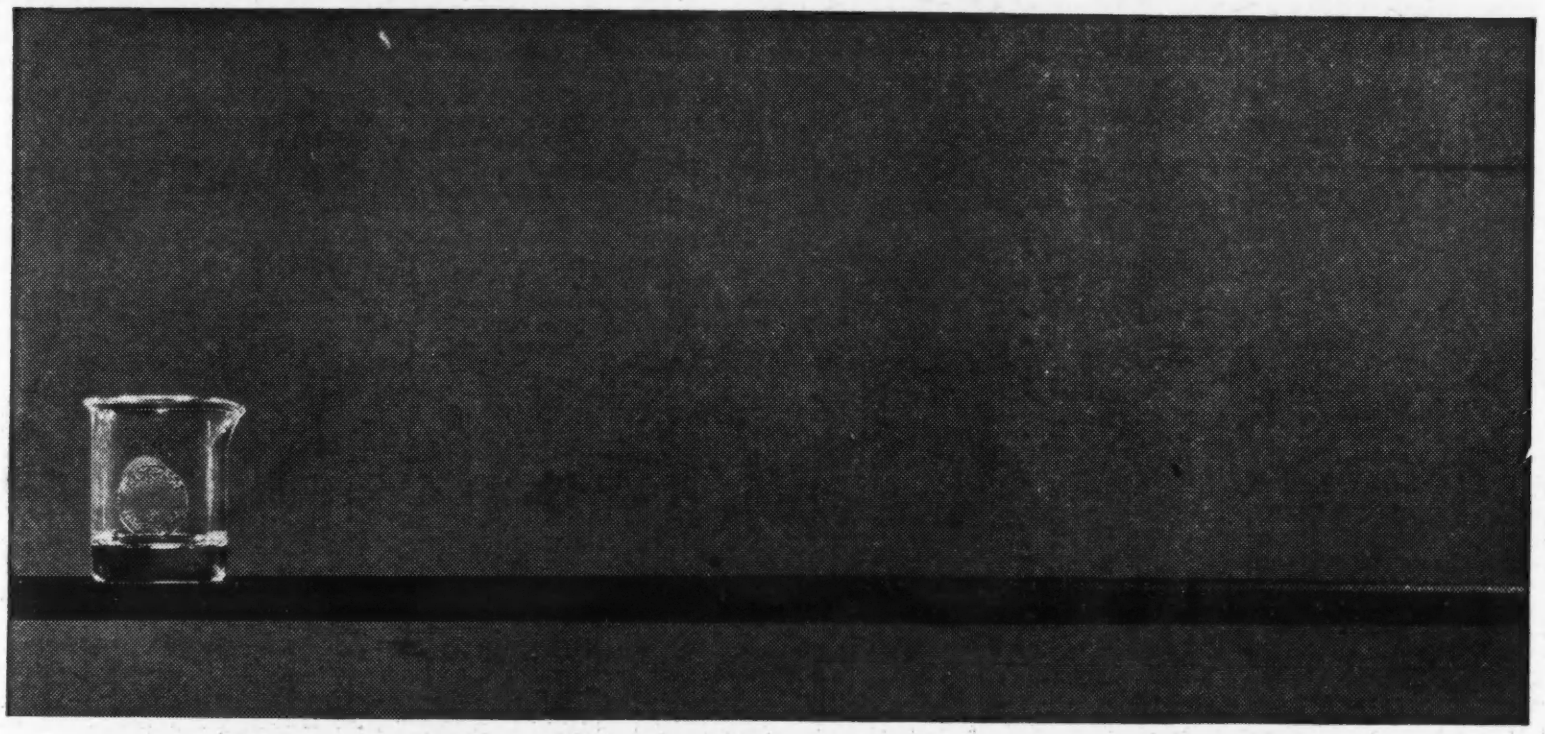
Both basic and applied research will be included in the various programs, but the stress will be on basic or fundamental studies, because many foreign scientists have made their most noteworthy contributions in this area. The work is under the supervision of Dr. Guido E. Hilbert, assistant administrator of Department of Agricultural Research Service.

Non-Farm Housing Starts

The big increase during September in the number of new non-farm housing starts indicates to government economists that the recession is definitely behind us and that the economy is heading for another prosperous period.

Government surveys reported 118,000 new non-farm housing starts during September, or the greatest number for the month since 1950. On the basis of the September figures, the seasonally adjusted total for the year would be 1,220,000.

New private and public units put in place in the first nine months of this year were 10 percent more than the number in the first nine months of last year. The number of private units alone was up 7 percent from 1957.



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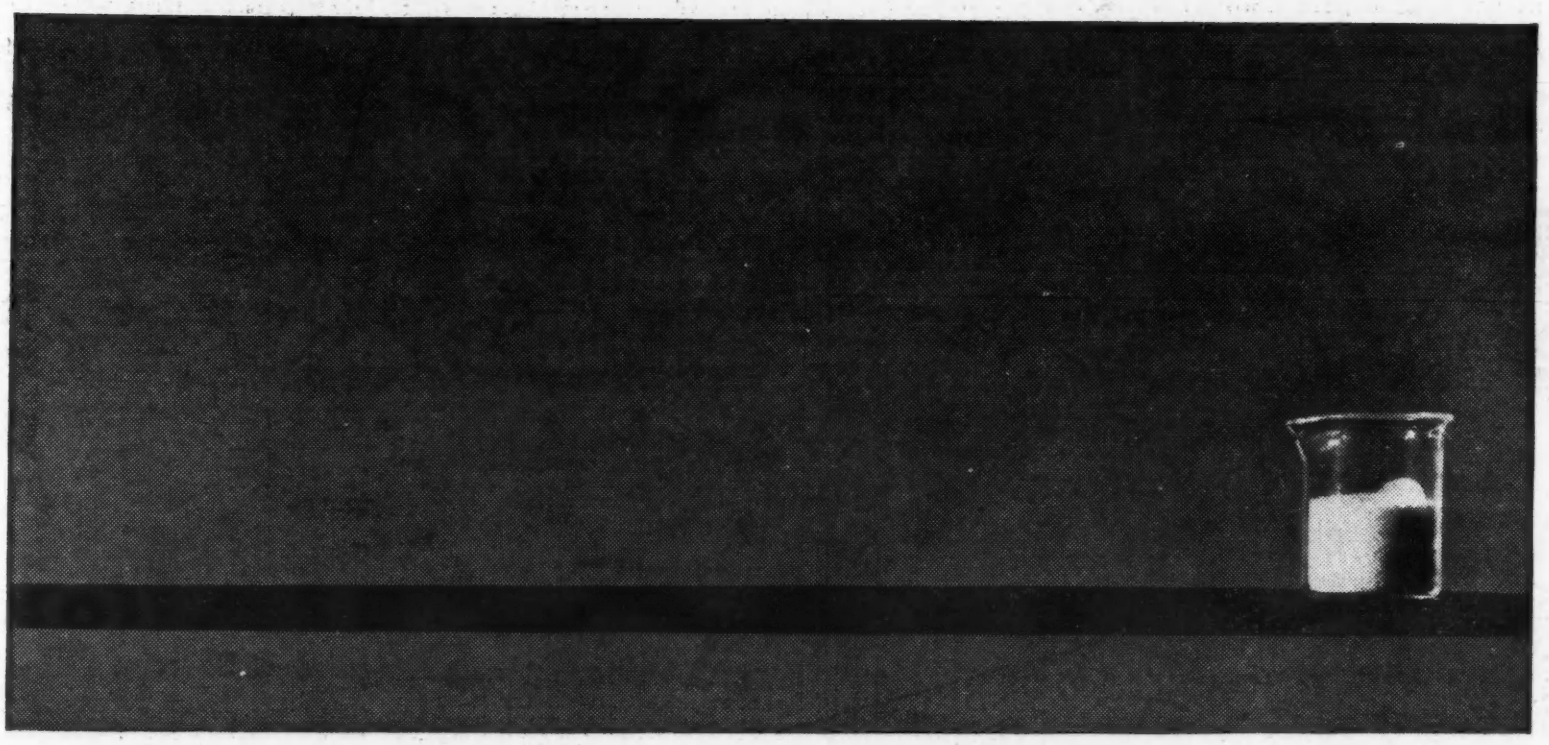

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Heavy Chemicals

Business has vastly improved during the past two weeks, but what about the immediate future? This is what chemical producers were asking themselves last week. A key factor in the clouded perspective is the strike in the glass industry. Two major producers are idled by strikes Already, soda ash shipments are reported to have slowed considerably. Not only that, the two glass producers supply the auto industry with the major portion of its flat glass. Lack of plate shipments just when new car output is getting underway in full swing could snarl production schedules.

Observers of the strike don't look for an immediate settlement, either. If auto output is slowed up, most sources contend, there will be a considerable crimp in chemicals shipments in general.

Copper metal went up on the primary producers level and pulled a number of copper chemicals with it, including carbonate, hydrate, nitrate and sulfate.

The lead market continued to show strength, and better demand combined with a firm government program made for another half-cent increase during the week. Lead chemicals were unaffected.

There have been rumors of an impending rise in sulfur prices. However, trade sources contacted last week said that a boost in the near future is unlikely, owing to heavy competition and large reserves.

The mineral acid business has improved greatly, just during the past ten days. This has been true not only of large volume shipments, but of small package deliveries as well.

Chlorine is still very freely available, and caustic soda continues to be in a good supply position because of chlorine cutbacks. Calcium chloride business is not developing as well as had been expected for highway de-icing, some sellers concede.

The American Paper and Pulp Association reported production for the week ended October 11 at 91.7 percent of theoretical capacity, as compared with the revised figure of 90.2 percent for the previous week, and 91.0 percent for the corresponding week of last year.

Price Trends

Advanced

Copper carbonate, 60c. per cwt.
Copper chloride, cupric, ½c. per lb.
Cuprous, 7/10c. per lb.
Copper hydrate, ¾c. per lb.
Copper nitrate, ¼c. per lb.
Copper metal, 1c. per lb.
Copper sulfate, CP, 25c. per cwt.
Cryst., 25c. per cwt.
Monohydrate, 35c. per cwt.
Tribasic, 50c. per cwt.
Lead, ½c. per lb.
Platinum, 50c. per oz.
Silver, ½c. per oz.
Tin, ¼c. per lb.

Reduced

Mercury, $2 per flk.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
104.72	104.67	104.81	104.05

For Current Prices see page 9

Acids

Hydrochloric—There has been a marked pickup in demand during the last two weeks, as contrasted to only a moderate week-to-week improvement reported earlier.

Strong advance is laid chiefly to improving steel production rates. A key factor is the resurgence of inquiry in package business, showing improved business conditions among fabricators and finishers.

Hydrofluoric—During the last ten days to two weeks, stainless steel demand has picked up sharply. While this factor has been responsible for large volume shipments, it is also pointed out that package business has shown considerable strength.

Producers noted that package demand for aqueous HF in particular had been quite poor during the summer, and had not shown much improvement until recently. Now, they say, variety package business is being stepped up at a rapid pace.

Nitric—Rising rates of steel and stainless steel production help this market to improve. Package business has been slightly better during recent weeks, but producers say there's room for improvement.

Sulfuric—Price competition remains keen along the eastern seaboard in the Philadelphia-New York-Boston area. However, sources in other parts of the country report their prices firm.

A southeastern producer reported that its quotations were holding without change, and that business had taken a definite upswing during the past two weeks. Similar situations are reported from the midwest.

Last week's steel output rose to an estimated 1,987,000 tons, or 73.6 percent of capacity, from the previous week's actual output of 1,933,000 tons, or 71.6 percent of capacity, accordng to the American Iron and Steel Institute.

Bases and Salts

Chlorine—Demand has improved, but the rate of advance is said to be lagging to some extent behind other products. Producers say they would like to do more business.

Copper Carbonate—With higher copper, this material advanced. Carbonate was quoted last week at $32.50 per cwt., bags, carlots, f.o.b. works, and $34 per cwt., less carlots, same basis.

Copper Chloride—Cupric anhydrous last week rose to 42½c. to 43c. per pound, drums, works, as to quantity. Crystalline dihydrate was quoted at 28¾c. to 29¼c., same basis. Dried crystals were listed at 36½c. to 37c. per pound, same basis.

Copper Hydrate—With higher copper, hydrate was boosted to 48c. per pound, drums, carlots, freight allowed, and 48½c. 37c. to 37½c. per pound, same basis.

Cuprous chloride was raised 7/10c. per pound, quoted at 37½c. to 40½c. per pound, drums, works, as to quantity.

Copper Nitrate—This chemical was increased following higher copper metal prices, and was quoted last week at 29¼c. per pound to 31¼c. per pound, drums, works, as to quantity.

Copper Sulfate—With higher copper, sulfate was raised in price last week. CP was increased 25c. per cwt., newly quoted at $18.30 per cwt., drums, f.o.b. works.

Crystal (99 percent) was raised 25c. per cwt., newly listed at $11.30 per cwt., bags, carlots, f.o.b. works, freight equalized, and $11.80 to $14.30 per cwt., less carlots, same basis.

Monohydrated sulfate was increased 35c. per cwt., newly quoted at $21.55 per cwt., drums, carlots, f.o.b. works, and $22.60 per cwt., less carlots, same basis.

Tribasic sulfate was increased 50c. per cwt. New prices were $25.65 per cwt., bags, carlots, f.o.b. works, freight equalized, and $26.65 to $29.65 per cwt., less carlots, same basis, as to quantity.

Production of copper sulfate in August decreased for the third successive month, to 3,192 tons in August from July's 3,800 tons, according to the Bureau of Mines. June's output was 4,080 tons. The drop in August from July levels was 16 percent.

Shipments fell 12 percent, to 3,452 tons in August from 3,924 tons in July, but were greater than production. Stocks declined 7 percent, to 4,236 tons in August from 5,460 tons in July, and were sufficient for more than a month's requirements at the August rate of shipments.

Foreign trade data for August are not yet available. Imports for consumption totaled 18 tons in July from the United Kingdom. Exports in July were 444 tons, of which 336 tons went to Jamaica.

Soda Ash—Producers continued to look with concern on the glass strike, which is in full force at the two largest flat glass companies. The two producers account for at least half the flat glass made in this country.

It is estimated that some 28.5 percent of all soda ash produced goes into glass manufacture. This includes plate, window glass and glass containers, as well as miscellaneous applications.

One producer points out that practically every pound of dense ash produced goes into the glass industry, with the possible exception of a few bags here and there

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Heavy Chemicals

which are used in water treatment and other miscellaneous applications.

Soda ash producers report that shipments to the glass industry have already begun to back up as a result of the strike. Furthermore, right now the outlook for early settlement of the strike appears dismal.

The consequences of a long glass industry strike could be far reaching. The two companies affected supply the lion's share of plate glass to the automobile industry. Should the auto producers' supply of plate be seriously interrupted, a foulup in production schedules could result.

With lagging auto output a possibility, manufacturers of chemicals are wondering about the future effects on their products, as well as on the nation's economy in general.

Sulfur — Despite persistent rumors that a price advance will soon be forthcoming in the sulfur industry. Trade sources questioned by OPD last week were of the opinion that no boost in quotations would be made in the near future.

Nonferrous Metals

Copper—Metal was increased last week, and primary producer copper was newly quoted at 27½c. per pound, delivered U.S. destinations.

Lead—Market continued strong, and lead scored another ½c. gain last week. Advances since August have amounted to 2¼c. per pound. Pig lead was quoted at 13c. per pound, New York, and 12.8c. per pound, East St. Louis.

Mercury—Metal was quoted easier, $233 to $236 per flask, spot, last week.

Platinum—Metal was slightly firmer after a long period of decline, quoted at $54.50 to $60 per troy ounce.

Silver—Bullion remained strong, and was quoted at 90⅜c. per troy ounce, spot last Friday.

Tin—Straits metal was quoted at 96⅛c. per pound, spot, on Friday.

Refined Copper Climbed During the Second Quarter

The Department of Commerce last week reported that refined copper moved toward a more favorable supply and demand balance in the second quarter of 1958, principally because of a decrease in new supply and an increase in exports.

In the quarterly review of the copper industry issued by the copper division of the department, it was stated that the curtailed production by primary producers brought second quarter output of refined copper down 7 percent from that of the previous quarter to the lowest of any calendar quarter in nearly three years. The report was optimistic on the outlook for the industry for the rest of the year.

Shipments of brass mill products were up in the second quarter from the first quarter, but only because of a sharp sales spurt in copper tubing.

The 23 percent increase in second quarter shipments of copper tubing, over shipments in the first quarter was partly accounted for by the upswing in new housing construction. Expanding military needs also were a factor, it was stated.

Imports of brass mill products have been on an upward trend during 1958, and in general are well in excess of quantity brought in during comparable periods of 1957.

According to the report, the outlook for the copper industry during the remainder of 1958 appears to be favorable, on the whole. Plus side indications show a trend to more realistic levels for refined copper stock, due to continue upward, a slackening in the rate of inventory liquidation, increased consumption of mill and foundry products by the construction industry and other major consumers, and increased stabalization in the world copper situation.

P.A.'s Set to Hear Robinson

Jack R. "Jackie" Robinson, vice-president in charge of personnel for Chock Full O' Nuts Corporation, New York, will be the principal speaker at the October 21 monthly dinner-meeting of the Purchasing Agents Association of New York at the New Yorker hotel, New York.

Mr. Robinson, a former baseball star, will speak on "Teamwork in Business." Also under discussion at the meeting will be a forum topic, "World Markets and Their Effect on Your Decisions of Tomorrow."

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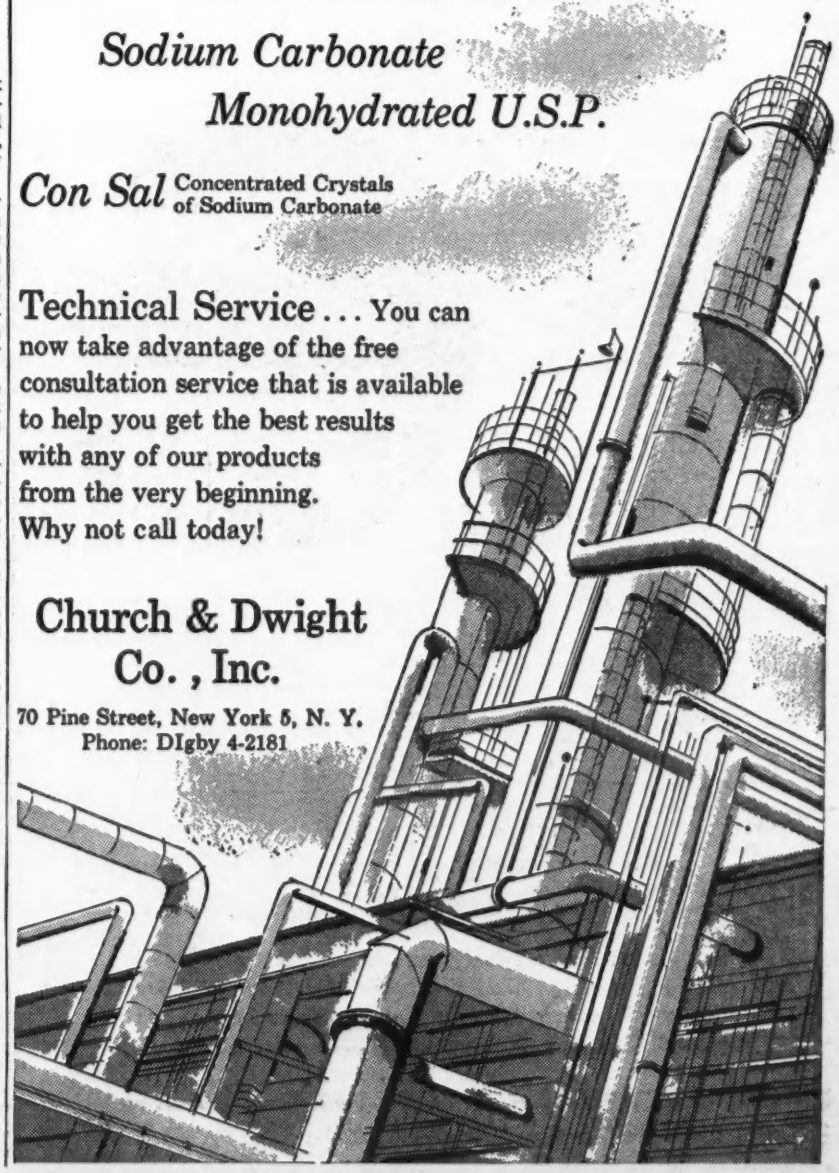

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Tartrate Choice: Imports Curb or Closed Plant

—Continued from page 5

pany has encountered increasingly stiff competition in tartaric acid and cream of tartar from producers located in France, Spain and Italy, where the producers enjoy low wage rates and have the added advantage of being right on top of their basic raw material source.

As a result of these advantages, he said, European producers can market their products at a net price far below what any American producer could possibly afford to meet. Stauffer's price of 49 cents per pound for tartaric acid compares with the duty-paid import price of 38 cents, and for cream of tarter it is 40 cents against 32 cents, Mr. Emison stated.

'Customers to Cheaper Source'

"Obviously a differential of this kind in the price of a standard product is going to drive the customers to the cheaper source, and this is exactly what has happened in the case of tartar products since the war," he added. "The trend is ominous: in 1950 only 8.5 percent of the total United States consumption of these products represented imported material; in 1957, the foreign products had captured 38 percent of the US market."

He predicted that if Stauffer is forced to drop out of the tartar products business and the field left entirely to the foreign suppliers it will mean higher prices to American consumers.

As a customer instead of a producer of tartrates, Mr. Lewis told the commission it would be expected that he would be favorable to getting his tartar products from the cheapest source possible. However, he said he favored relief for Stauffer so that that company can continue in the business and guard the American market from being captured entirely by foreign suppliers.

Paying a Penalty

He added that he had continued to give Stauffer a portion of his business in spite of a price penalty to help maintain Stauffer in the business as a control against unlimited price increases from abroad. He emphasized, however, that he cannot continue this policy indefinitely.

"From the consumer's standpoint we do not feel that the present situation is a healthy one," Mr. Lewis said. "We are apprehensive that if Stauffer is forced out of the business, the almost certain result will be a substantial increase or series of increases in the price of foreign material to whatever level the US market will bear. Our company would find it difficult or impossible to protect itself from a price rise of this kind. It is probable that even the government would be substantially powerless to cope with the situation, since the foreign producers are beyond reach of the US antimonopoly laws.

"For this reason, even though a tariff increase might temporarily result in increased costs to our company, we believe that a reasonable tariff adjustment is necessary on tartaric acid in order to preserve the sole American producer in the business and protect the long-range interests of the American consumer."

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Nickel for Government Is Slated for Industry Use

All the nickel scheduled for shipment to the government in 1959 is again to be diverted to industry, by order of Civil and Defense Mobilizer Leo A. Hoegh last week.

This is the third consecutive year in which the government has decided not to insist upon delivery under the several contracts it negotiated with producers during the Korean and post-Korean period, and has been made possible, Mr. Hoegh said, by the continuing improved defense position for the metal.

The diversion will make approximately 100 million pounds of nickel, both market and premium-priced, available to the civilian economy to meet demands in excess of commercial supplies in 1959.

DCAT Young Men to Meet

Drug, Chemical & Allied Trades section of the Young Men's Board of Trade will hold its annual luncheon October 23 at the Roosevelt hotel, New York. Guest speaker will be G. L. Pitzer, vice-president of the Bakelite Company, New York, a division of Union Carbide Corporation. Mr. Pitzer will discuss developments in the plastics industry.

Chemical Label Standards

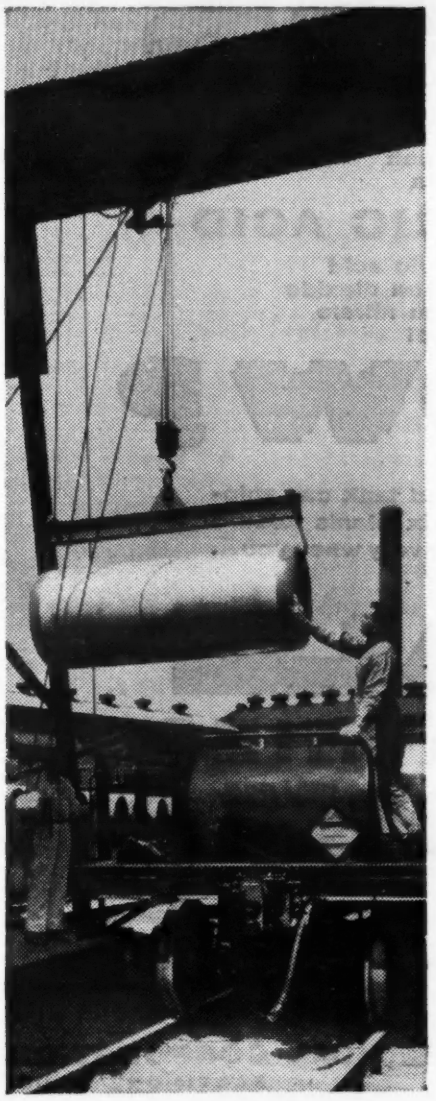
—Continued from page 7

tor of medical research, E. I. du Pont de Nemours & Co., Wilmington, Del.

Also, William Quinn, counsel, chemical division, Merck & Co., Rahway, N. J., will review the legal responsibility in labeling of hazardous substances.

The conference will be held in conjunction with the fortieth annual meeting of the American Standards Association. Theme of the conference is: "Standardization—What's in it for me?"

Among the subjects of other sessions of the conference are: Standard methods and specifications as a foundation for standardization in industrial operations; how standards make money for individual companies; American industry's responsibility in developing its own nuclear codes and in providing world leadership in the nuclear standards field; how standards aid machine tool progress; international standardization and its significance to the American export trade; producer-consumer benefits from electronic standardization; and what photographic standards mean to the consumer.



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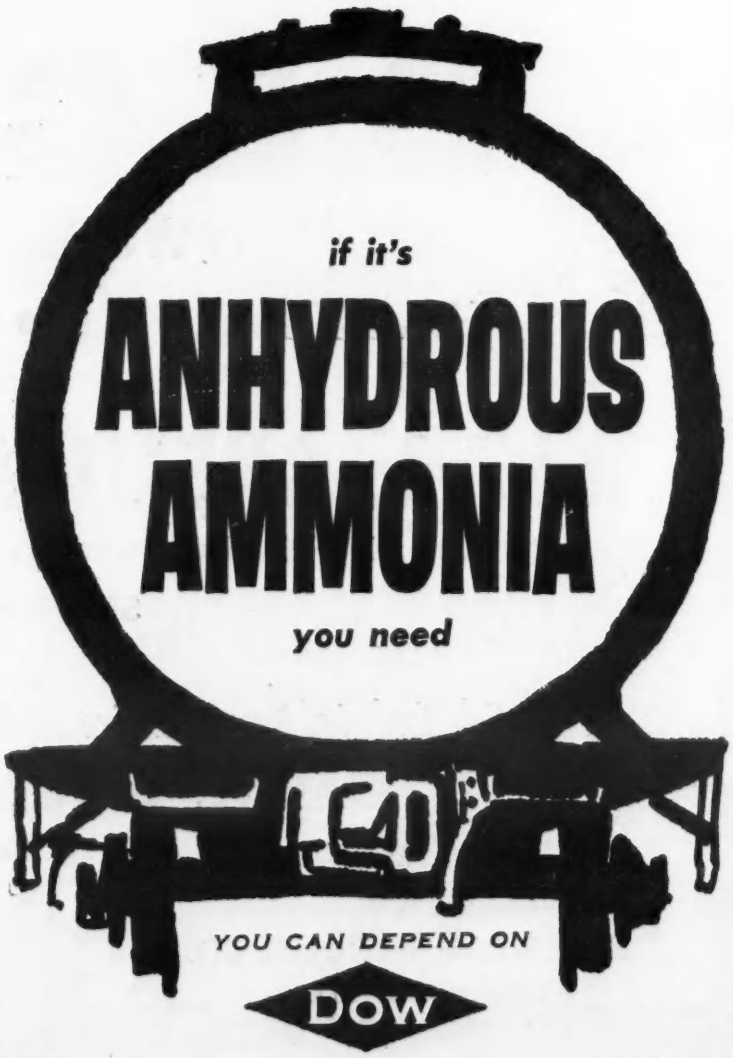

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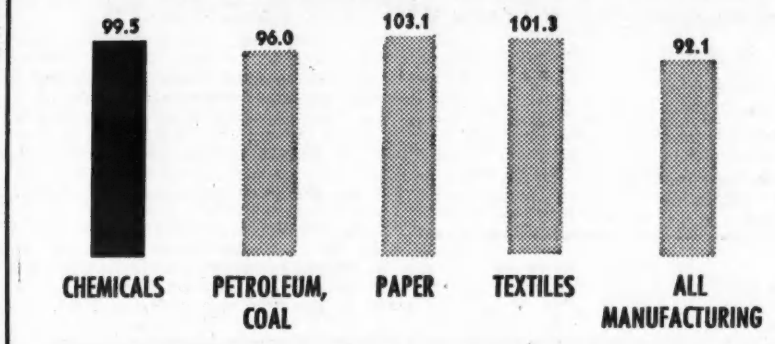

SALES IN AUGUST

Source: Department of Commerce. 100=same month in 1957. Sales figures are seasonally adjusted.

Food Industry Next in Line For Sweeping Probe by FTC

Federal Trade Commission last week ordered its economic staff to undertake a broad investigation of the food industry relative to the competitive methods and practices used in marketing food.

The action came in the form of a resolution adopted by the commissioners as a result of "many complaints that in the evolution of food distribution in recent years there have developed tendencies to concentration of economic power, to collusive price action and to unfair competitive methods."

The commission said that a substantial percentage of all anti-monopoly investigations by the commission is of alleged violations of law by parties in the food industry.

The investigation is to be directed toward the integration and concentration of economic power at the retail level of distribution in the industry.

However, the commission emphasized, not only will the practices of the retailers be considered, but also those of food wholesalers, manufacturers, distributors and brokers, if relevant to the investigation.

MCA Elects Cyanamid Man To Head Safety Committee

S. F. Spence, of American Cyanamid Company, New York, has been elected chairman of the Manufacturing Chemists' Association's general safety committee.

The election came at a committee meeting held last week at a workshop attended by approximately seventy safety officials from chemical plants in Texas and Louisiana. The workshop was sponsored by MCA in cooperation with the Texas Chemical Council.

Mr. Spence, director of safety and loss prevention for Cyanamid, succeeds G. L. Gorbell of Monsanto Chemical Company. New vice-chairman is J. S. Queener, manager of the safety and fire protection division of E. I. duPont de Nemours & Company.

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Textile, Leather Chemicals

Consumers continued to absorb moderate lots of textile and leather chemicals for prompt delivery last week. Consumer inquiry, however, was more active for forward requirements but actual trading was reported still limited. Prices remained unchanged and quite steady for the major portion of the list. Sharply reduced prices of Brazilian tapioca flour for shipment announced the week previous have not as yet, improved trading. Offers for shipment were reported quite liberal. Siamese tapioca flour was quiet and ruled steady and was still below the cost of the former. Trading in potato starch was confined to nearby delivery, while large users showed more interest for forward requirements. Demand for chemicals was fairly active for immediate needs and against current contracts. Buying interest in tanning materials continued light and spotty.

Price Trends

Advanced
None

Reduced
Tapioca flour, Braz. spot, 1c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
100.84	100.83	100.83	103.54

For Current Prices see page 9

September shipments of cellulosic man-made fibers (excluding acetate staple + tow) totaled 87,100,000 pounds, according to the Textile Economics Bureau. These shipments were 500,000 pounds greater than August deliveries but 2½ percent under comparable September, 1957 shipments. In the latest month, shipments comprised 85,100,000 pounds for domestic users and the balance of 2,000,000 pounds for export.

High tenacity rayon yarn shipments in September amounted to 24,500,000 pounds, an increase of 8 percent over August and regular + intermediate tenacity rayon yarn shipments in September totaled 12,900,000 pounds, a decline of 12½ percent compared with August. Similarly, acetate yarn deliveries in September came to 19,700,000 pounds, 5½ percent under August; but for the year to date, acetate yarn deliveries aggregated 169,300,000 pounds, 10½ percent above shipments in the corresponding period last year. Rayon staple + tow shipments in September amounted to 30,000,000 pounds an increase of 6 percent over the August level of 28,300,000 pounds.

Chemicals

Bichromates—Consumers absorbed fair sized lots for prompt delivery. Market was quotably unchanged for all grades. Withdrawals against contracts were reported quite active.

Sodium Acetate—Fair volume of business was reported for actual needs. Quotations were maintained at former levels.

Sodium Hydrosulfite — Improved demand was noted for prompt needs. Prices were unchanged and well held.

Sizing Materials

Albumin Egg—Firmer tone prevailed and prices were advanced in some quarters. Demand was fairly active for prompt requirements. Flake ranged from $1.05 to $1.07 per pound and powder, $1.09 to $1.11, spot, according to quantity and seller. Technical was in fair request with light sales from $1.08 to $1.10 per pound, as to quantity.

Corn Dextrin—Business was reported fairly active for actual needs. Prices were maintained for all grades. Gum was quoted in $9.40 per 100 pounds, paper bags, carlots, New York basis; dark canary, $9.24, light canary, $9.14 and white, $8.98, same basis. Less carlots were 15c. higher.

Corn Starch—Good volume of business was reported for prompt delivery. Prices were steady and unchanged. Pearl was quoted at $7.38 per 100 pounds, paper bags, carlots, New York basis and powder $7.50, same basis. Less carlots were 15c. higher.

Estimate of the corn crop was raised to 3,686,218,000 bushels as of October 1 by the Department of Agriculture compared with 3,588,766,000 bushels, September and 1957 production of 3,402,832,000 bushels. The 10-year average (1947-56) was 3,144,304,000 bushels. Corn stocks on farms October 1 totaled 341,290,000 bushels against 419,622,000 bushels, October 1 last year and 10 year average of 331,854,000 bushels.

Egg Yolk—Moderate volume of business was noted for prompt delivery. Market remained steady. Stocks on spot were firmly held at $1.20 to $1.24 per pound, depending upon seller and quantity.

Egg production in September totaled 4,500 millions compared with 4,673 millions in August and 4,418 millions, September last year, it was reported by the Department of Agriculture. Production from January through September inclusive amounted to 45,576 millions against 46,186 for the same period last year and 10 year average of 44,760 millions.

Potato Starch—Trading was restricted to prompt needs, though more interest from consumers was reported for forward requirements. Carlots were maintained at 6c. per pound, f.o.b. mills, Maine and 5¾c. for delivery outside of New England. Idaho starch was unchanged at 5.8c., carlots, f.o.b. mills, less ½c. for shipments to eastern destinations. Stocks on spot remained unchanged at 8¼c. to 9¼c. per pound, exwarehouse, as to quantity.

Potato crop as of October 1 was forecast at 257,876 cwt. by the Department of Agriculture compared with 259,046 cwt., September 1 and 1957 production of 239,539 cwt. The 10 year average was 228,615 cwt.

Tapioca Flour — Trading was reported limited for both Siamese and Brazilian grades. Brazilian flour was recently reduced sharply for shipment. B grade was quoted around 5.4c. per pound, carlots, exdock, prompt and A grade at 5.65c., same basis. Siamese remained unchanged and B grade was available at 5c., carlots, exdock, prompt shipment and A at 5¼c., same basis. Brazilian flour on spot was lower and further reduced to 9c. to 10c. per pound, exwarehouse, depending upon seller and quantity.

Tanning Materials

The following table shows revised shoe production figures for 1956 and 1957 released by the Department of Commerce. Output for both years was revised upwards. The adjustments reflect changes in total production as well as reclassification of some shoes. The major change in the 1956 data was an upward correction in women's regular shoes: the 1957 production was revised downward on men's and women's dress shoes, children's, and miscellaneous types while sizable increases were noted for slippers, men's work, women's playshoes, and misses' shoes.

Thousand pairs	1957	1956
BREAKDOWN BY TYPE OF UPPER:		
All leather	478,163	484,899
Part leather	32,484	28,699
Non leather	87,001	78,159
Total	597,648	591,757
% all leather uppers	80.0	81.9
% all and part leather	85.4	86.8
BREAKDOWN BY TYPE OF SOLE:		
Leather	205,765	214,911
Other	391,883	376,846
Total	597,648	591,757
% leather soles	34.4	36.3
Average factory value, per pair	$3.57	$3.60

Cutch—Buying interest was confined to nearby shipment. Shipments were quoted at 7½c. per pound, exdock.

Myrobalans—Consumers showed limited interest is replacements. Offers for shipment were without change. Genuine J1's was quoted at $50 to $51 per ton, exdock, prompt shipment; crushed J1's $65 to $66 per ton, and Bombay, $44 to $45, same basis.

Quebracho Extract — Shipments were unchanged and well held. Trading continued restricted at nearby delivery. Solid clarified, 64 percent was quoted at 10.8713c. per pound, carlots, exdock, prompt shipment and solid ordinary at 9.9228c., same basis.

Wattle—Business was light, chiefly for immediate shipment. Quotations were without change. Fair average was quoted at $68 per ton, exdock, prompt shipment and merchantable, $64, same basis. Extract was unchanged. African 60 percent was held at 8.275c. per pound, and South African at 8.4c., carlots, exdock, prompt shipment.

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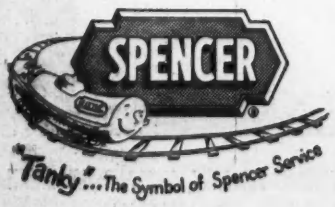

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Aliphatic Organics

Trade feeling last week was impressively optimistic. Just about everyone contacted by OPD reported that the business tempo which swung into quick time in the early part of August showed no visible signs of pause. Responsible for this accelerating pace, most conceded, was the auto industry, last year's scapegoat oft-times seen as the seat of the recession, and now heralded as leading the nation's industry to new and, perhaps, greener pastures. "We've almost got an auto economy," trade sources frequently say, explaining why "times" are either bad or good. But it's not likely that many will be worrying about Detroit's place in the business schema THIS year—provided, of course, that the car captains are able to sell their progeny, and from all accounts, they seem to think they can.

Addressing conventions, replying to questions posed by news reporters, highly-placed members of the auto industry exude confidence. They forecast a good '59 because, as they say, the buying public has renewed its faith in the US economy and to prove it, have increased their purchases of hard goods, including autos.

But whether the new cars sell or not, for the time being, at least, all business reflects the optimism of the auto makers. Steel production continues ever upward and organic chemicals that ultimately wind up in Detroit as finishes, plastics, and safety glass are now subject to strong demand.

All this talk about the business improvement has, no doubt, left buyers of chemicals with some queasy feelings about what will happen to prices. Among organic chemicals, ethyl alcohol and denatured grades, isopropyl alcohol, mono- and di-PE were advanced October 1. Some in and outside the trade suspected that producers of other chemicals, taking this cue, would also increase prices, particularly on items where expanding operating costs have narrowed the profit margin.

No one can predict what the policy-makers will do, but it's the personal and considered opinion of several of the men involved in the sale of organic solvents, that there will be no price advances, certainly not declines, in the immediate future. Strongest reason for not tampering with prices, they say, is that while demand is building up steam it would be foolhardy to reduce the pressure one degree by announcing upward revised schedules.

There has been nothing flamboyant about inquiry for acetone, but it's reported that a quite firm market has developed. Tendency to price sniping, noted some months back, appears to have been no more than a localized situation which has since been cleared up.

For 2- ethylhexanol, the price decline of June has had no profound effect on the market. Traditional customers, it's said, have continued to buy in normal quantity but no new buyers have been so entranced by the lower prices that they have switched their allegiance from a competitive chemical.

Price Trends

Advanced
None

Reduced
Molasses, New Orleans, tanks, ¼c. per gal. New York, tanks, 1c. per gal.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
130.73	130.74	130.55	131.09

For Current Prices see page **9**

Acetic Acid—Based on recent reports, it appears that the healthier business climate is very much apparent in this market. This bodes well for many areas of the industry since acetic acid enjoys a wide scope of applications in chemical manufacture.

Acetone—Don't look for any price activity, trade sources advise observers who assume that because isopropyl alcohol quotations were upped October 1, acetone, most of which is derived from the catalytic hydrogenation of IPA, will be given the same treatment. By way of explanation, they point out that acetone has been in none too enviable a position during the past few months and, in fact, has only recently developed any really marked degree of firmness.

Of course, you can rule out a price drop as being highly unlikely, these same sources say. For while there were instances where extreme competition induced selling below list this past summer, such is the case no longer.

Solvent requirements have increased of late but as this end-use absorbs a relatively insignificant percentage of acetone output, trade members attributed the brighter market picture to steadier call for many of the acetone-derived chemicals.

Carbon Tetrachloride—The slow-down in propellants manufacture, a seasonal thing, accounts for the only routine inquiry for carbon tetrachloride presently, spokesmen for producers pointed out. Correspondingly, strength is imparted toward the end af Fall when the aerosol people start preparations for the big Spring insecticide market, they added.

Ethanolamines—To market observers last week, the ethanolamines displayed little apparent weakness. Demand from detergents outlets, generally, as well as from the petroleum industry for diethanolamine, in particular, was in moderate volume and indications were that inquiry would continue at or near that level in future weeks. Inventories, reportedly, while by no means modest, presented no pressing problem. It was said that any build-up of supply was prevented by curtailing production during the summer months, this last fact attested to by Tariff Commission figures.

Nothing new in the way of price movement is envisioned.

Ethyl Alcohol: August

Volume of ethyl alcohol produced, withdrawn and remaining as stocks at the end of the indicated periods, as reported by the Alcohol and Tobacco Tax Division, Internal Revenue Service: Domestic undenatured alcohol production represents gross production (original production plus production by redistillation) less the quantity consumed in redistillation. Stocks of domestic undenatured alcohol consist of quantities at industrial alcohol bonded warehouses and denaturing plants. Data on completely and specially denatured alcohol represent alcohol produced from domestic and imported alcohol and spirits produced by registered distilleries (redesignated upon receipt at denaturing plants as alcohol).

	August 1958	*August* 1957	*July* 1, '58 *Aug.* 31, '58	*July* 1, '57 *Aug.* 31, '57
NET PRODUCTIONS				
Undenatured ..... proof gals.	39,750,629	41,480,769	79,089,162	77,189,903
Completely denatured..... wine gals.	37,619	53,690	79,425	79,332
Specially denatured..... wine gals.	20,582,073	20,210,905	40,138,170	39,588,667
WITHDRAWALS				
Undenatured, tax paid..... proof gals.	624,906	812,020	1,224,983	1,536,809
Tax free..... proof gals.	38,750,808	38,133,068	75,414,729	74,604,445
Completely denatured..... wine gals.	33,670	47,615	72,156	68,685
Specially denatured..... wine gals.	7,903,318	5,876,045	15,336,979	12,935,821
STOCKS AT END OF PERIOD				
Undenatured ..... proof gals.	38,669,351	28,907,605	38,669,351	28,907,605
Completely denatured..... wine gals.	25,694	19,536	25,694	19,566
Specially denatured..... wine gals.	5,037,515	4,476,760	5,037,515	4,476,760

Aliphatic Organics

Itaconic Acid—Technical grade itaconic acid quotations were cut 5c. per pound early in August, establishing a carlot, works price of 39c. and a less carlot of 40c. This was the first price revision since 1956.

Itaconic acid was introduced in 1955 and has only recently become a commercial product. Thus, some observers interpreted the price break as an attempt to expand requirements for the chemical further.

Methanol—Demand for methanol has picked-up but it'll be sometime before supplies, accumulated during the past year, can be brought into line. But regardless of how the market shapes up, speculation as to a January 1 price advance will probably continue. And mostly because current prices are extremely low and, according to sellers of the chemical, the profit return is negligible.

Methyl Ethyl Ketone—Sellers of solvents reported that sales in September perked up in keeping with the spectacular rise in demand for alcohol. One of these solvents to so profit was MEK. Part of this resurgence of interest was ascribed to expected increased requirements for protective finishes, particularly from the automakers.

Molasses—Markets for feeding cane molasses were weak and prices declined in the Gulf and Midwest states during the week ended October 14. According to Agricultural Marketing Service, the weak tone was due to large supplies at port terminals, the beginning of Louisiana sugarcane harvest, and continuing good to excellent pasture conditions.

Demand showed slight improvement in some areas at the lower prices, AMS said, but generally remained slow to moderate in the Gulf and Midwest. Prices at New Orleans were mostly 13.75c. per gallon, a decline of ¼c. from the preceding week, and at New York were mostly 17c.

Export of industrial molasses for the month of August amounted to 75,916 gallons, sharply lower than the 221,667 gallons in July and only a small fraction of the 2,098,279 of June. This brought the cumulative total for the first eight months of the 1958 calendar year to 7,633,059 gallons.

Harvest of the Louisiana sugar cane crop began October 10. Only one cane grinding plant was operating by October 14, but most of the others were expected to be in operation shortly.

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Fine Organics Facilities Modified, Output Increased

Large-scale production of "Allantoin" (5-ureidohydantoin), made possible by modification of its facilities, has been started by Fine Organics, Inc., Lodi, N. J.

The material, established as a wound healing agent, is available in crystalline and micronized forms in a grade suited for use in pharmaceuticals and cosmetics.

In addition, Fine Organics has increased its line of cationic germicides with a group of ampholitic surface-active agents of high bactericidal potency. Compatible with anionic, cationic, and non-ionic substances, the ampholitics are said to display excellent bactericidal potency in both acid and alkaline media.

Similarly, a quaternary ammonium germicide whose use does not result in foaming has been added to the company's line. The product, dioctyl methyl benzyl ammonium chloride, has the high bactericidal potency normally associated with quaternary ammonium compounds.

Elastomeric Latex Is Put On Sale by Dow Chemical

Dow Chemical Company, Midland, Mich., has developed an elastomeric latex based on vinyltoluene and butadiene for use by the textile industry.

Designated "Dow Latex 2582," the new product is said by the company to have superior resistance to metal staining, is lighter in color, lower in odor, and has improved light stability.

Drug Men Told

—Continued from page 7

chain drug store averages 8,000 feet per store."

This is partially attributed by Mr. Sykes to the customers demand for diversity of product. "For example," he said, "there are 200 shades of lipstick on the market and we must carry all of them."

However, more basic than this is the fact that chain drug retailers feel that they "have an important stake in the launching of new products."

Giving a statistical basis to his argument, Mr. Sykes said that 80 percent of Sun Ray Drug sales are regular sale items; the other 20 percent, which include the new products, are the items that must be pushed and sold and are the margin upon which the company expends much of its sales energy.

Displays within the store play a large part in the success of the items in the 20 percent category. Surveys have shown that sales of new products have sold in almost direct ratio to the amount of display space given the item.

However, Mr. Sykes said, the chain drug retailer cannot go it alone. "The need for the manufacturer to advertise and promote his product is acute."

"Strong advertising, particularly," he said, "is an absolute necessity."

Beyond this, Mr. Sykes feels, lies the need for research and study of promotion methods and marketing needs and wants. Liquid drug items, he noted, are becoming more and more popular in aerosol bombs.

Just as the retail outlet must constantly study its best advertising and display face, so must the manufacturer, Mr. Sykes said.

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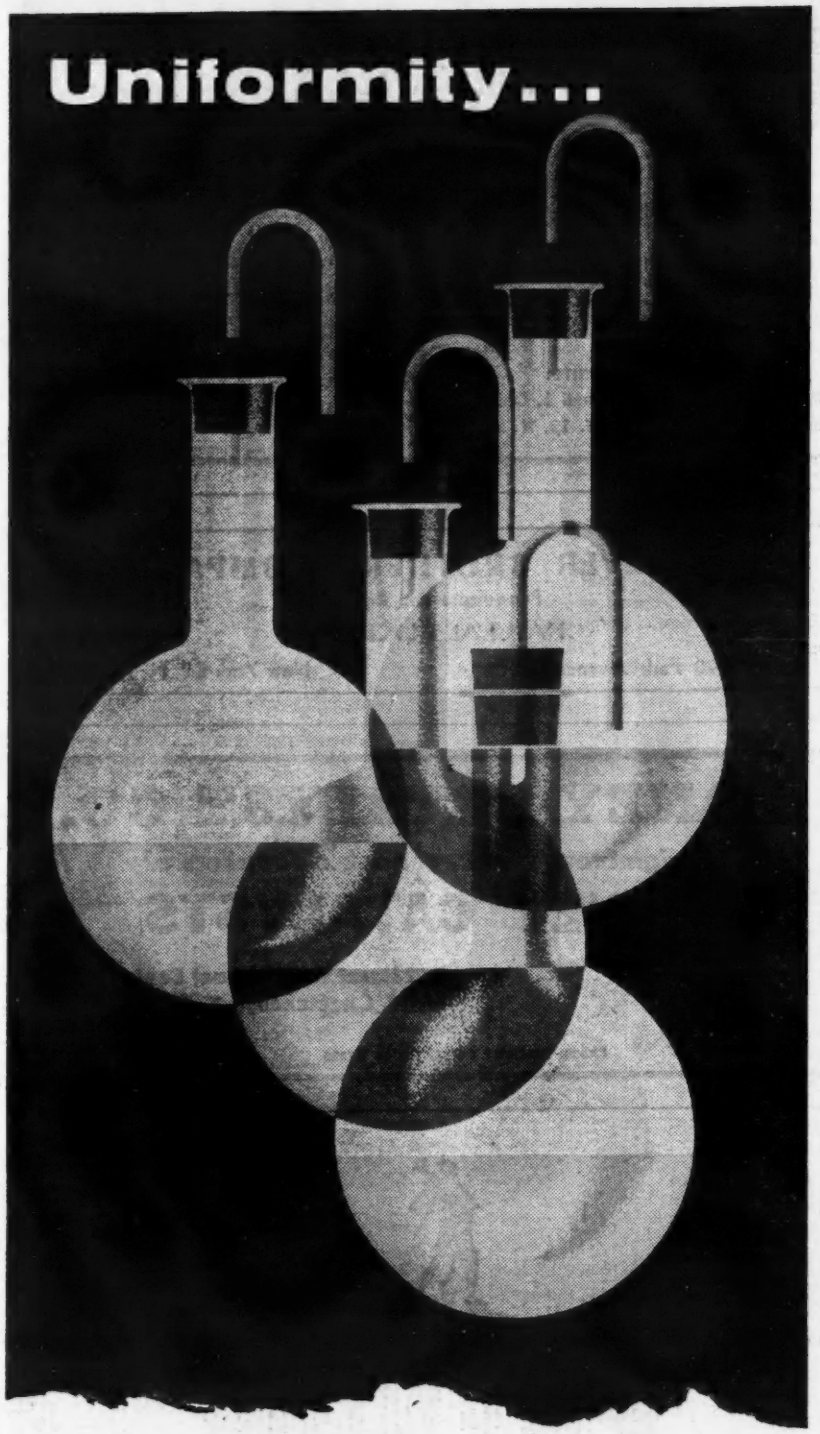

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See Koppers Coal Chemicals Insert, Page 28A

KOPPERS

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COAL CHEMICALS

Coal Chemicals

Consumption in coal chemicals markets continued to show a gradual improvement last week. Most large volume items have trended upward with the revived interest in automobile, rubber, steel and construction industries. A policy of sharp inventory control, in force most of the year, has eased somewhat. Consumers were certainly not building inventories, but interest has picked up substantially compared with reports of the second and early third quarters. No price changes were reported in aromatic chemicals last week. The only price change on tap is a 4 cent per gallon boost for creosote oil slated for the end of this month.

A basic producer of cumene will equalize freight with Frankfort, Pa., according to report of last week. It was also reported that a country-wide price for p-dichlorobenzene had been established. Previously, prices on the West coast (Zone II) were higher than Zone I listings. The Zone I listings will be effective at all points now, sources said.

Phthalic anhydride and phthalates were moving at a good clip last week. Sources had their collective ears to the ground in an effort to determine whether or not 17 cent phthalic would come on the market about November 1 as scheduled by a midwest petroleum source. One source said lower phthalic anhydride would tend to stabilize ester prices, which have been weak for many months.

The stepped up pace in phthalic markets bodes well for naphthalene producers. However, sources in the latter field pointed out that a good quantity of naphthalene overhangs the market and a substantial amount of material would have to be worked off before any real improvement was possible. Price developments in the phthalic market remained a matter of prime concern to naphthalene producers.

Light oils markets were showing better tone than has been the case for many months. Speculation on the nature of renewed buying was varied, but the consensus appeared to be that it was tied up with added sales to the automotive trade. This outlet was in turn strongly bound to the steel and rubber industries so that it was difficult to point to any one as more important in the upturn than the others.

American Iron and Steel Institute estimated that steel production in the week ended October 19 would amount to 73.6 percent of theoretical capacity equivalent to 1,987,000 net tons of steel. Output of steel was 1,933,000 net tons in the week previous, 1,771,000 in the comparable week one month ago and 2,070,000 tons in the corresponding week one year ago.

Price Trends

Advanced
None
Reduced
None
Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
118.53	118.53	118.58	118.19

For Current Prices see page 9

Basic Products

Benzene—Market was steady at previously reported levels. Last price action in the benzene market occurred in early July of this year, when quotations were dropped 5c. per gallon.

Recent weeks have seen an upturn in demand from styrene makers after many months of listless movement. Solvent sales this quarter lean heavily on good consumer acceptance of 1959 model cars, it was said.

August report of the Bureau of Mines indicated production of cokeoven benzene during the month amounted to 8.8 million gallons as against 8.1 in the previous month and 14 million in the comparable month last year. Output for the first eight months was 72.4 million gallons compared to 122.4 million in the corresponding period last year.

Sales of cokeoven benzene in August amounted to 8.5 million gallons compared with 8 million in the month previous and 13.5 million gallons in the comparable month last year. Sales in the first eight months totaled 70.7 million gallons compared with 121.3 million during the eight month period last year.

Stocks at the close of August totaled 11 million gallons against 11 million in July and 6.7 million at the end of August last year.

Creosote—New prices for straight creosote oil and solutions were scheduled to go into effect after October 30 as announced at the beginning of this month by a major tar distiller. Other sources have reported that they would go along with the advances which represent a return to schedules in effect last May.

Under the new schedules, straight creosote oil will list at 24c. per gallon, while coaltar for solutions will be 17c. per gallon. Prices are for tankcar quantity. Creosote solutions are also slated for proportionate advances.

p-Cresol—Makers of purified p-cresol, 98 percent, held unchanged price schedules. Listing for p-cresol in tankcar lots was 49c. per pound, while price on carload or truckload lots was 52c. and less carload or truckload quantities listed at 53c. per pound. Withdrawals for use in the manufacture of 2,6-di-tert-butyl-p-cresol were steady, although the latter have been working from fully adequate inventories, it was said.

Cumene—A basic chemicals producer will equalize freight with Frankfort, Pa., according to report of sources contacted last week. Market continued routine with steady withdrawals noted for use in the production of phenol.

Naphthalene—Market was unchanged from previous report. Buying for advance requirements has been slow, according to most sources. Cokeoven operators stocks have moved up as steel operating rate continued on the increase. Phthalic market has shown some added life in recent weeks, which bodes well for naphthalene producers, it was said. However, a good quantity of naphthalene overhangs the market and will have to be worked off before any noticeable improvement takes place.

Phenol—Reports from producers of both natural and synthetic phenol remained on the optimistic side. Although consumption of synthetic phenol still leaves something to be desired, it was felt that there had been a definite improvement during recent weeks from reports of the first and second quarters. Price was unchanged at prevailing levels.

Xylene—Cokeoven operators quoted unchanged prices last week. Consumption has shown improvement this month over the listless action of previous months. Speculation among cokeoven producers as to the nature of current buying, ranged from the common assumption that an upturn in new car production and steel output was the basis for the upturn to a belief that buyers who subsisted on hand to mouth lots of xylene, during the time when a price reduction was expected daily, had come back into the market with both feet. Regardless of the reason, the overall market has shown a distinct improvement over the situation in the second and early third quarters.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending October 19, was as follows:

Ammonium liquor	lbs.	586,566
Ammonium sulfate	lbs.	32,156,851
Benzene	gals.	3,180,491
Coaltar	gals.	15,420,166
Crude chemical oil	gals.	404,078
Solvent naphtha, crude, heavy solvents	gals.	104,378
Toluene	gals.	677,900
Xylene	gals.	196,123

Intermediates

Acetanilide—Carload price was quoted unchanged from last report at 32½c. per pound. Withdrawals were routine, according to report of sources contacted last week. The last change in this market was

Coal Chemicals

a 2c. per pound across the board advance initiated January 1 of this year.

p-Chlorophenol—Schedules were unchanged at 37c. per pound for carload lots and 38c. for less carload quantities in drums. Market was routine.

p-Dichlorobenzene—A major producer reported that a country-wide pricing system had been established. The move eliminates higher prices which were quoted in the West (Zone II). Market was steady at prevailing levels.

Dodecylbenzene—Business during the past month has been very good compared to movement at the first of the year. Sources pointed out that this is an item that should move in substantial quantity at a fairly steady pace. However, during the first half of 1958, purchasing agents pared inventories to a low point. It was felt that there would be no build up in inventories now, but at least consumers were buying in good volume again.

Price was unchanged at 11.7c. per pound in tankcar lots, while carload in drums was 14c. per pound and less carlots in drums listed at 15c. per pound.

H Acid—Price of this material was quoted at 90c. per pound in carload and truckload lots, while listing for less carlot or trucklot was 95c. per pound. Quotations have been unchanged since a 5c. per pound drop in the less carload price in April. Carlot price was unchanged at that time.

b-Naphthol—Price was unchanged at 33c. per pound in carlot quantity while l.c.l. lots listed at 35c. per pound. Market has shown some improvement in recent weeks, but demand remains largely routine.

Phthalic Anhydride—Phthalic as well as acid esters continued to "move at a good clip," according to report of major producers contacted last week. The feeling in the trade was that consumers would continue to come in with good orders as a result of major producers having announced some time ago that they would meet a 17c. price, if and when material is marketed at that figure. There was no indication as to whether or not a petroleum unit scheduled to come on stream about November 1 in the midwest would come in on time or not.

Sources felt that a lower phthalic price would stabilize esters across the board by making it less profitable for non-integrated manufacturers to produce these materials. Higher alcohol prices which went into effect October 1 would also be a factor in cutting down the profit of marginal producers of phthalates, it was said.

Styrene Monomer—Production of GR-S rubber continued to improve and with it, sales prospects for makers of styrene monomer. Although total tire shipments were said to be about 10 percent lower this year than last, sales of replacement tires reached 43.1 million units for the first eight months of this year against 41.2 million in the comparable period last year. Some sources estimate that sales of replacement tires next year could approach 60 million units. A period of heavy inventory reduction by rubber makers appeared to have reached an end, especially in view of the added needs being felt for new equipment for 1959 cars.

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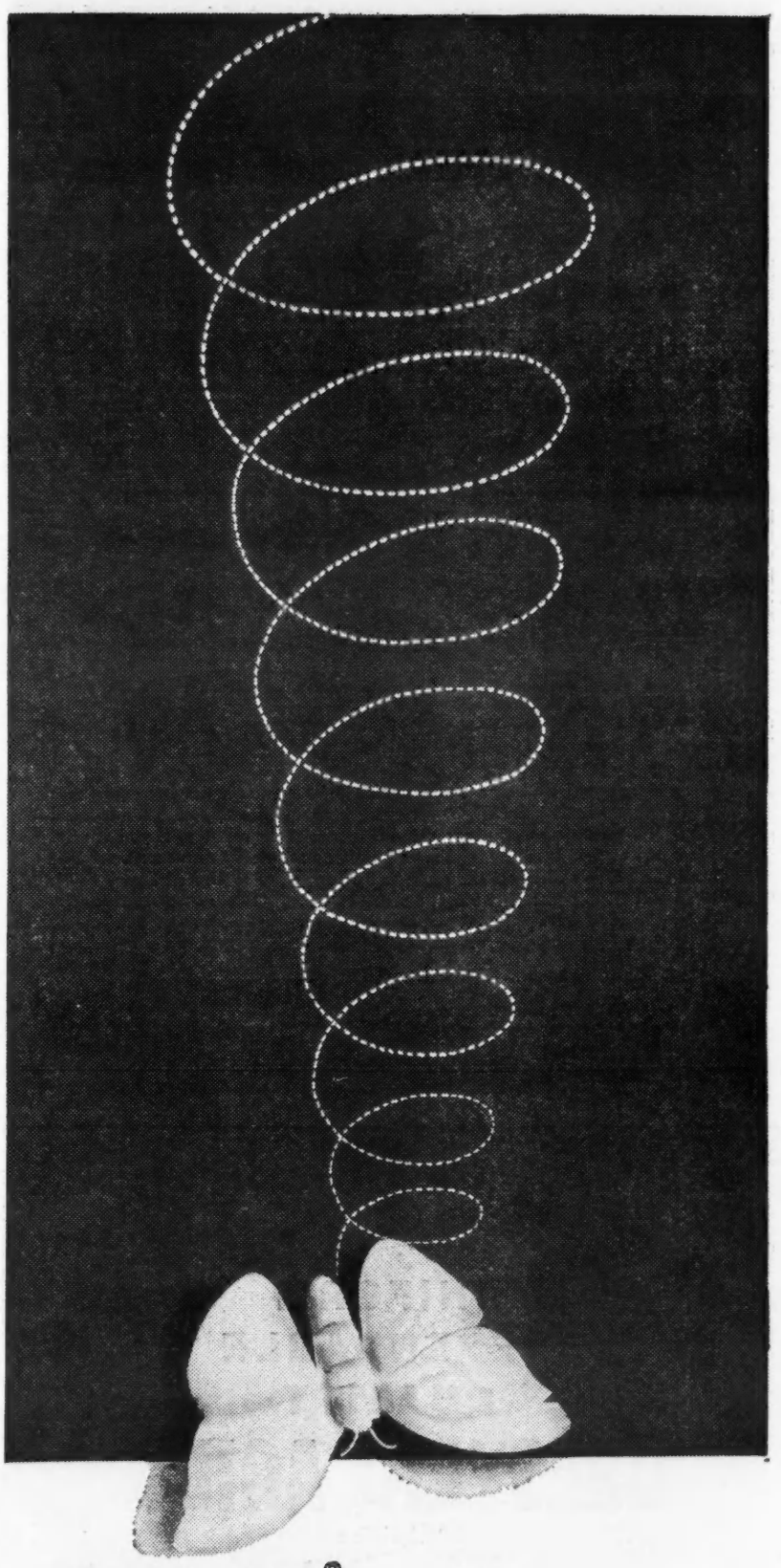

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USS Chemicals

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That will be the special theme of the forty-fifth annual meeting of the Chemical Specialties Manufacturers Association, to be held December 8-10 at the Commodore hotel, New York.

Among the highlights of the meeting will be election of officers for 1959, presentation of awards in the annual aerosol package contest, and presentation of the Annual Achievement Award.

General meeting speakers will include Osgood V. Tracy, president of Enjay Company and vice-president of Esso Standard Oil Company; Fred C. Foy, chairman of the board and president of Koppers Company; Dr. Leroy F. Burney, Surgeon General of the Public Health Service; George P. Larrick, Commissioner of Food and Drugs, Food and Drug Administration; Dr. Leona Baumgartner, Commissioner of Health, New York City, and Dr. Justice C. Ward, head of pesticide regulations, Department of Agriculture.

Hooker Plant Buzzes

—Continued from page 5

former Shea Chemical Corporation, now Hooker's phosphorus division, prior to Shea's consolidation with Hooker last May.

The first position goes to Harold E. Frederick, whose office is in Marysville, Ohio, and who had been senior vice-president-agricultural chemicals at Shea Chemical Corporation prior to its merger into Hooker.

The second post goes to Errol F. Cook, an expert on animal nutrition, who had served Shea in a technical service capacity since the company's inception.

The third spot goes to W. Newell Wyatt, who had been assistant director of sales in charge of industrial chemicals for Shea before the merger. His office will continue to be located at the division's operations headquarters at Jeffersonville, Ind.

The enlarged dicalcium phosphate facilities at Columbia are expected to be in operation by April 1, it was announced by the home office of Hooker in Niagara Falls, N. Y.

The company operates two electric furnaces at Columbia, producing phosphorus from its own phosphate rock reserves. Dicalcium phosphate is a large volume animal and poultry feed supplement.

A First Producer

The former Shea Chemical Corporation, now Hooker's phosphorus division, with plants at Columbia; Jeffersonville, Ind.; Adams, Mass.; and Dallas, Tex., was reportedly among the first to produce dicalcium phosphate. Hooker lay claim to being the largest manufacturer of that dicalcium phosphate produced from the higher purity "furnace grade" phosphoric acid, of which it says it is the largest producer, as compared to the so-called "wet process" phosphoric acid made by treating phosphate rock with sulfuric acid.

"Furnace grade" acid is produced by passing phosphate rock, coke and silica through an electric furnace where temperatures of some 1,500 degrees centigrade melt the rock and vaporize the phosphorus, which is later condensed and collected in liquid form with resultant high purity.

Stauffer Buys Into Firm

—Continued from page 3

Mexican industrialists, headed by David Phillips of Mexico City.

Stauffer, a major United States producer of hydrofluoric acid, has long been active in Mexico.

The company currently holds a substantial interest in Industrias Quimicas de Mexico, S. A., which produces carbon disulfide, sulfuric acid and ammonium sulfate at Morelia and Zacapu.

Stauffer also has a wholly-owned subsidiary, Stauffer de Mexico, which operates agricultural chemicals plants at Nogales and Reynosa.

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Agricultural Chemicals

Editorial writers for certain of the nation's leading dailies gave their imaginations a work-out last week, conjuring up images of huge, pyramiding stockpiles of wheat—$2,500,000,000 worth—easily dwarfing both Tut's and Cheops' tombs. Then, putting the intelligence faculty to work, they came to one conclusion: artificially government-propped prices have got to go or at least be reduced sharply enough to allow US wheat (and other crops, as well) to compete favorably while not acting as a depressant in the world market.

This, of course, is the stand that the National Plant Food Institute and many producers of agricultural chemicals have taken traditionally. And not purely from motives of self-interest either. As a spokesman for the Institute recently pointed out, agriculture is big business and the one principle that is gospel to industry must be applied to agriculture. That principle: mass produce to reduce the per unit cost.

Not until Ezra Taft Benson took command of the Agriculture department and started talking about what others termed "radical changes" was there any real clamor to reduce support prices and loosen up on acreage controls. But the farm bill passed during the last session of congress was a step in that direction and indications are that the Secretary's efforts, now strengthened by public opinion, will probably see the end of the parity concept, thus putting more land into production and reducing farm prices so that US goods are no longer shut out of world markets. At least the end is in sight, and it would seem then that those agricultural chemical producers who are busily engaged in expansion of facilities, may have plenty of customers for that extra material after all.

Price Trends

Advanced

Hoofmeal, Chicago, 25c. per unit-ton.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
110.42	109.46	108.45	112.27

For Current Prices see page 9

Animal and Plant Foods

Ammonium Nitrate Limestone—A price reduction was announced late last week for ammonium nitrate limestone or, as it is quoted in OPD's Prices Current, ammonium nitrate with dolomite (dolomitic lime). The revised schedule includes a bag, carload listing of $44.50, f.o.b. Hopewell, Va.; and a bulk listing of $40.50, same basis.

Reportedly, the price decline was in response to pressures exerted by a competitive imported material, calcium ammonium nitrate, having the same 20.5 percent nitrogen content.

Animal Proteins—Offerings of hoofmeal have been light and thus the slight improvement in demand last week was sufficient to boost prices 25c. per unit ton, to $6.50, at Chicago.

The market situation for dried blood and tankage remained unchanged. Prices, advanced 25c. per unit ton at Chicago a fortnight ago, were firmly held; interest, for the most part, was seasonally weak.

Phosphate Rock — Florida phosphate rock prices, reduced 10 cents per long ton in mid-September simultaneously with the decline in the price of fuel oil, bounced back again October 1 in response to the rise in labor costs. Change amounted to a net advance of 5 cents over quotations established last March.

Pesticides

As domestic inquiry for pesticides subsides, trade interest switches to foreign markets. And in the next few months, sources say, rather large shipments should be moving abroad, a good percentage ot these under the auspices of US government and UN agencies. In this regard, DDT sellers, among others, stand to make a rather handsome profit. Reportedly, anywhere from 55 to 60 million pounds of 75 percent wettable powder may be called into export before the year is out.

Presently providing a modicum of demand for pesticides is the pest control industry. Interest is centered primarily on the organic phosphate family of insecticides. This is because one of the principal foes of the exterminators, the German roach, has developed a resistance to chlorodane and other of the chlorinated hydrocarbons.

Main drawback as far as use of the organic phosphates is concerned is the higher cost involved. Also, some of these chemicals present an "odor" problem though this difficulty is said to have been surmounted in some of the more recently developed materials, among which are Dicapton and Korlan.

Chloropicrin—Used as a grain and soil fumigant, chloropicrin is sold both by domestic producers and importers, most of whom find that demand has grown progressively weaker over recent years. This fact prompted one man conversant with the market to describe the chemical now as a "football" item—which term more or less explains itself.

At present, one domestic maker quotes chloropicrin at $1.07 per pound in cylinders of 180 pounds, at $1.08 in cylinders of 100 pounds, and at $1.14, cylinders of 50 pounds. Freight is allowed on minimum orders ($100).

Farm Chemicals Foreign Trade: July

Following are data compiled by the Census Bureau indicating volume of exports and imports of agricultural chemicals. Classified as ammonium nitrate mixtures are those containing 20 percent or more nitrogen. Figures for ammonium phosphates and fishmeal and scrap account only for that material intended for use as fertilizer. Superphosphate is classified as normal when a.p.a. is less than 25 percent, concentrated when a.p.a. is 25 percent or more. The term tons refers to short tons.

		July	June
EXPORTS			
Ammonia, anhydrous and aqua	lbs.	6,590,612	*
Ammonium nitrate	lbs.	10,404,408	19,252,550
Ammonium sulfate	lbs.	38,852,533	61,057,795
DDT, technical	lbs.	3,130,084	*
Insecticides, fungicides and agricultural sulfur	lbs.	16,682,793	9,064,756
Phosphate rock	tons	370,969	327,460
Potassium chloride	tons	51,264	35,681
Superphosphate, normal	tons.	20,390	10,097
Concentrated	tons	37,908	52,051
Weed killers	lbs.	1,580,174	1,466,493
IMPORTS			
Ammonium nitrate, including mixtures	tons	10,612	11,524
Ammonium phosphates	tons	4,446	3,354
Ammonium sulfate	tons	7,252	13,221
Blood, dried	tons	449	540
Calcium cyanide or lime nitrogen	tons	2,777	1,163
Fishmeal and scrap	tons	276	1,682
Nitrate, calcium	tons	551	1,150
Sodium, crude and refined	tons	39,458	52,527
Phosphate, crude, including apatite and phosphate rock	tons	6,720	6,829
Potassium chloride, crude	tons	9,618	11,823
Nitrate, crude	tons	0	0
Sulfate, crude	tons	0	0
Urea	tons	3,404	3,690

* Not previously reported here.

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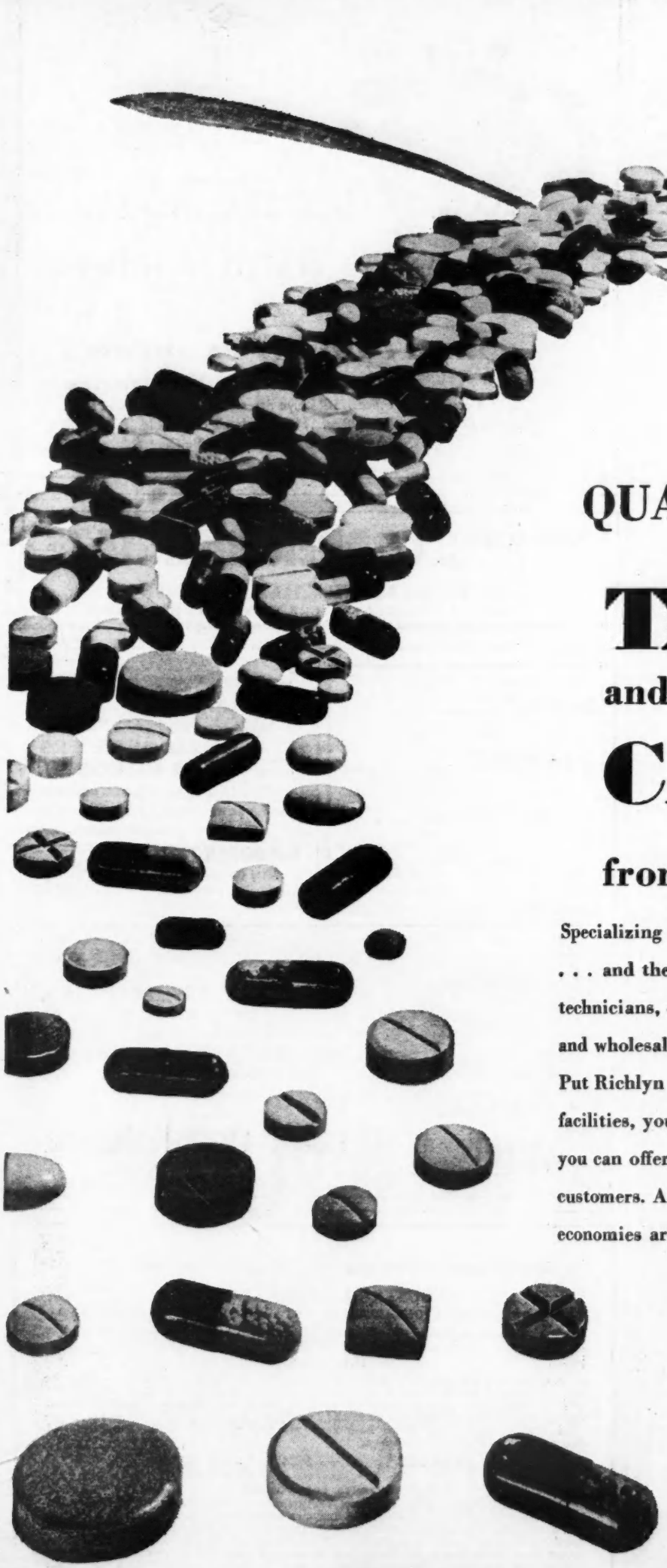

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Drugs, Fine Chemicals

Silver salts were boosted again as a reflection of higher prices for bullion. A 1¾ cent per ounce advance in bullion during the past two weeks has forced repeated increases in nitrate and cyanide prices. The latest increases amounted to 2 cents per ounce on nitrate (3,000 ounce quantity) and 2½ cents per ounce on cyanide (1,000 ounces). A late rise in bullion prior to the Columbus Day week-end caused sources here to withdraw quotations on silver salts temporarily, but revised schedules were established last week.

Hormone markets were quiet after reductions in cortisone and hydrocortisone two weeks ago. Other makers reported that they were meeting the competition. The same report was true for folic acid, the latest reduction having been a 4 cent per gram drop to 44 cents. All of these markets have been hit by reductions previously this year. Part of the price pressure came from imports, sources said.

Salicylate markets continued in a seasonal uptrend which has been more noticeable since Labor Day. Volume this month has been good and sources expected November to maintain the pace. Prices were well held at levels in effect for more than a year.

Penicillin and streptomycin prices have become increasingly weak since early last summer. Sources said just as much bulk material, or more, was moving into consuming channels as in previous years. However, prices continued to depend on how much material a producer has on hand and how badly he wants to move it.

Brucine and atropine continued in light supply. Price on the former was nominal in the absence of any substantial stocks of material on hand. Sources said use of quassia as a substitute alcohol denaturant for brucine showed promise in some applications, but in others there remained problems to be overcome.

The Tariff Commission last week began an investigation into the report of a major domestic producer that imports of tartaric acid and cream of tartar had reached such volume as to endanger domestic production. It was felt in this quarter that unless relief was forthcoming in the near future, suspension of domestic production would result.

Antibiotics—Prices have continued to weaken in streptomycin and penicillin markets since early last summer. In the current market, price on streptomycin and dihydrostreptomycin was about $70 per kilo, according to most reports. Potassium and procaine penicillin ranged from 4¾c. to 5½c. per million units, while sodium penicillin was at 5½c. per million units.

Sources agreed that price depended largely on quantity and the amount of material a producer has on hand.

Caffeine—Census bureau reported imports in the month of July amounted to 118,855 pounds, with 92,855 pounds coming from West Germany and 11,000 pounds from Switzerland. Average value of the German material was $1.82 per pound, while the value of caffeine from Switzerland was $2.51 per pound. Imports in the first seven months of this year totaled 503,020 pounds.

Trade sources quoted prices unchanged from quotations in effect for more than a year.

Cyclamates—Calcium and sodium cyclamates listed at $2.50 per pound in 100-pound fiber drum. Price on 25-pound drum was quoted at $3 per pound, while a 5-pound drum was $3.25 per pound. Withdrawals were steady at routine levels, it was said.

Ferric Pyrophosphate—Material was quoted unchanged at 79c. per pound for NF soluble granular pearls, while powder was 85c. per pound. Listing for ferric phosphate, NF granular soluble pearls was unchanged at 72c per pound in 225-pound fiber drum packing. Markets were routine, according to report of sources contacted last week.

Folic Acid—Market was quiet after a 4c. per gram reduction in the price of USP material, announced two weeks ago by a major producer. Currently, USP material in kilo lots or more lists at 44c. per gram, while a 10% feed grade material is $44 per kilo in 3-kilo lots or more. This market has been hit by continued price declines during the past year and a half, partially due to heavy import pressure.

Price Trends

Advanced

Silver cyanide, 2½c. per oz.
Silver nitrate, 2c. per oz.

Reduced

None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
62.54	62.54	62.60	63.22

For Current Prices see page 9

Hormones—Other makers were going along with reductions announced for cortisone acetate and hydrocortisone alcohol and acetate two weeks ago by a major pharmaceutical producer.

Under the new schedules, cortisone acetate was listed at $1.90 per gram in kilo lots or more, while hydrocortisone alcohol or acetate was $2.25 per gram, same quantity.

Iodides—Prices in these markets were unchanged from previous report, according to sources contacted last week. The last price change in these markets was a 3c. per pound drop in the price of potassium iodide effected at the close of last month.

Census bureau reported imports of crude iodine in July were 50,000 pounds as against 186,443 pounds in the previous month. For the first seven months of the year, imports totaled 1,107,399 pounds.

Salicylates—Markets continued to gain seasonally, according to report of basic suppliers contacted last week. A steady uptrend has been noted in trading in analgesic and antipyretic materials following Labor Day, sources said. November requriements were expected to keep pace with the good demands being recorded in the current month.

Silver Salts—A rise of 1¾c. per ounce in the price of silver bullion during the past two weeks has forced repeated advances in silver salts.

As a result of a late increase in bullion prior to the Columbus Day week-end, sources had withdrawn quotations on silver salts.

At the close of last week, with silver bullion at 90⅜c. per ounce, new prices for silver salts were quoted which were 2c. per ounce over previously reported price on nitrate (3,000 ounces) and 2½c. per ounce over the last reported price on cyanide (1,000 ounces). Best price was 64¼c. for 20,000 ounces of silver nitrate.

Under the new schedules, silver nitrate was 66¼c. per ounce in 3,000 ounce lots, in bottles; 1,000-ounce drum was 66¾c. and 250 to 500 ounces, in bottles, 67¾c. per ounce.

Silver cyanide, 1,000 ounces, in bottles, 93½c. per ounce; 500 ounces, bottles, 94c.; and 100-ounce bottle, 95c. per ounce.

Tartaric Acid—Last week saw the beginning of a Tariff Commission investigation into imports of tartaric acid and cream of tartar. The purpose of the investigation was to determine whether imports of these materials have grown to such magnitude as to pose a serious threat to domestic production.

In asking for the investigation, early in September, a basic domestic producer of tartrates said that imports of acid had grown from 8.4 percent of the market in 1950 to about 38 percent last year. Imports of cream of tartar during the period were said to have increased from 29.1 percent to 43 percent.

Botanicals

Importers continued to report listless action in crude drug markets. Prices on senna leaves, all grades, were firmly quoted. Material has become increasingly hard to obtain, it was said, and good quality lots command premium prices. Pods have been scarce for many weeks as stocks have been used without replacement. However, trade sources

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Drugs, Fine Chemicals

expected new crop material within the next month. Ipecac prices on whole root and powder have been well maintained in the face of a fairly active consuming demand. High quality papain remained in light supply.

Overall buying of crude drugs was characterized as extremely spotty and in hand to mouth fashion. No pickup in demand has materialized for dealers in import drugs, while movement of large volume domestic botanicals this fall has been "about as usual."

Advice from the country has indicated that this season's botanicals collections were the smallest of recent years. However, last year's large crop collected at high prices was felt to give dealers an adequate backlog against any surge demand. This appeared unlikely in view of the slow buying of many months past.

Ipecac Root—Prices were maintained at previously reported levels. Whole root listed in a range of $8.75 to $9.25 per pound, while powder was $9.50 to $10 per pound. Light supples and fairly active demand have contributed to a firm price front for good quality materal, it was said.

Papain — Major botanical and crude drug dealers listed papain, purified at $8.50 to $12 per pound. Market was listless. Light supply of quality material has held quotations up.

Senna Leaves—Good quality material in all grades was becoming increasingly difficult to come by. Senna pods have continued to show a firm price front and prices of good quality Tinnevelly and Alexandrian leaves have trended upward.

Buying has continued spotty and it appeared that consumers would continue to follow hand to mouth purchasing practices.

Alexandrian, whole and half, senna leaves listed at 22c. per pound, while siftings were 19c. Tinnevelly No. 1 senna leaves were quoted at 22c per pound; No. 2, 19c.; No. 3, 14c.; powdered senna leaves, 17c. per pound and senna pods, 28c. per pound.

Shrink-Stabilizing Agent Is Being Offered by Geigy

Geigy Dyestuffs, Ardsley, N. Y., a division of Geigy Chemical Corporation, has introduced another chemical agent, "Chloregal D," for aiding the age-old problem of wool shrinkage.

The "Chloregal" process is basically a new acid chlorination treatment which reduces the tendency of wool to felt, thereby imparting dimensional stability.

The advantages of acid chlorination have been known for many years, but the rapid reaction under these conditions has previously resulted in non-even shrinkproofing and subsequent dyeing difficulties. "Chloregal D" controls the reaction thereby making it possible to chlorinate using conventional dyehouse equipment and to perform the operation on wool in almost any form including yarn, slubbing, and knitted or woven piece goods before or after dyeing.

NIH Promotes Three To Top Staff Posts

Three staff changes at the National Institutes of Health in Bethesda, Md., were announced last week by the Public Health Service.

Dr. C. J. VanSlyke, now an associate director of NIH, will become deputy director. Dr. Kenneth M. Endicott, now chief of the Cancer Chemotherapy National Service Center, will become an associate director of NIH. Richard L. Seggel, now director of the office of management policy in the Department of Health, Education and Welfare, will become executive officer.

Dr. Van Slyke, Dr. Endicott and Mr. Seggel will all serve on the immediate staff of the director of NIH, Dr. James A. Shannon. They will assume their new duties within the next several weeks.

Pfizer Picks Managerial Aid

Thomas V. Cartolano has been appointed administrative assistant to J. Philip Smith, general manager of the chemical sales division of Chas. Pfizer & Co., Brooklyn, N. Y. Mr. Cartolano has been in Pfizer's market research department since 1956.

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Packaging Institute Elects Officers for Coming Term

Charles W. Kaufman, director of research and development for National Dairy Products Corporation was elected president of the Packaging Institute at the group's twentieth annual national packaging forum in Chicago last week.

George Weissman, vice-president and director of marketing of Philip Morris, Inc., was elected a vice-president of the institute. Also elected were Harold Mosedale, jr., vice-president of sales for Package Machinery Company and L. H. Zahn, manager of methods and package development, Ciba Pharmaceutical Products Inc., as vice-presidents of the institute.

Science Scholarship Set Up

The Associated Drug & Chemical Industries of Missouri have adopted a scholarship program for physical science students of Washington and St. Louis universities. A spokesman for the association said that the program will provide about half the four-year tuition cost for one student in each school.

Agricultural Chemical

—Continued from page 3

be introduced in the opening days of the next congress and the industry would seek its passage before congress adjourns, probably in July.

He added the hope that the Department of Agriculture will approve the industry's proposals and that the state control officials would take no action in this field until the federal pattern is established.

In his address to the convention, Mr. Hitchner made mention of the changing personnel taking place in the industry with younger men moving into key positions, and criticized some of the trends occuring in the area of state law administration.

He said that while the new generation taking over in the industry is fundamentally better equipped in technical and legal background than some of the oldtimers, he felt that many of these men do not know the past history and so-called philosophy of legislative action and the effect of ill-conceived legislation on the present and future.

Broad Knowledge Necessary

Knowledge of all factors, both past and present, is necessary for the one responsible for administration of the law and the industry administrator responsible for compliance, he emphasized.

With regard to state regulation, Mr. Hitchner cited two matters of current concern:

- The trend on the part of some stages to refuse to register certain pesticides which are in compliance with the technical requirements of the law.
- The refusal of some states to accept registration of fertilizer-pesticide combinations.

He said that such refusals are unjustified and appear to be based on the false premise that such products either are not needed or are barred by state fertilizer laws.

So long as a product is properly labeled and in compliance of both the fertilizer and pesticide laws, he stated, it should be registered and permitted to be sold without any consideration of economics or comparative effectiveness.

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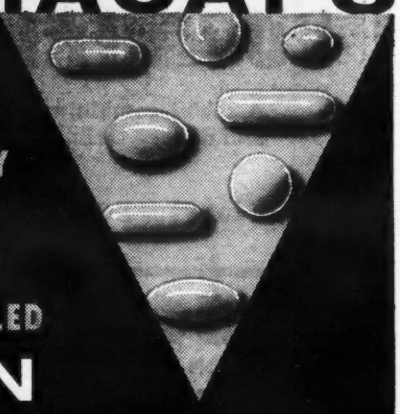

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Delhi-Taylor Revamps Duties on Executive Level

The recent resignation of Delhi-Taylor Oil Corporation's executive vice-president, P. T. Bee, has brought about a number of changes in executive level duties for the Dallas, Tex., firm.

According to the company president, James L. Sewell, he will take over part of Mr. Bee's former duties. Also, C. H. Hobbs has been appointed to the newly-created position of executive assistant to the president; G. B. Lintner, treasurer, has also assumed the duties of controller, while W. C. Smith, vice-president of production, will co ordinate activities of the geological, land, and geophysical departments in the exploration division.

Mr. Bee left Delhi-Taylor to accept a management position with Murchison Brothers.

Surgeon Gen'l Puts Aid In Int'l Health Position

Surgeon General Leroy E. Burney has named Dr. H. van Zile Hyde as assistant to the surgeon general for international health. Dr. Hyde, has been chief of the division of international health for the last five years.

He will continue to represent the U.S. on the executive board of the World Health Organization, a position to which he has been appointed by President Eisenhower. His successor as chief of the division of international health is Dr. Horace DeLien, who has directed the health program of the International Cooperation Administration in the Philippines for the past seven years.

CSMA Award to Klarmann

The Achievement Award of the Chemical Specialties Manufacturers Association will be given to Dr. Emil G. Klarmann, vice-president in charge of technical services for Lehn & Fink, Inc., New York, on December 10. Dr. Klarmann is being honored for his work in the fields of disinfection and sanitation. He has been with Lehn & Fink for thirty-four years.

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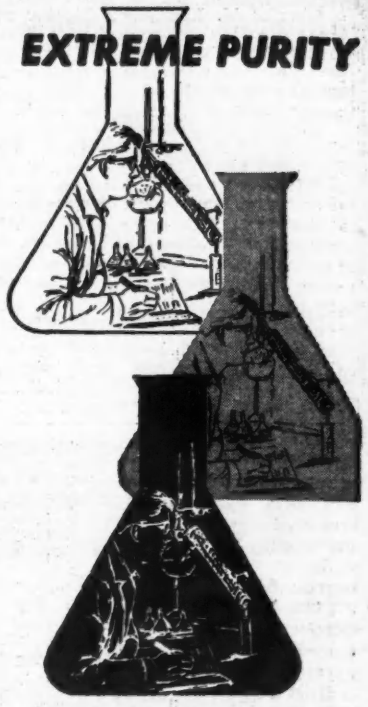

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Petroleum Derivatives

Indications in this market continue to point towards a slow but steady upswing in virtually all areas of the demand and production picture. Toluene has already gotten on the road. A number of the full and partial aromatics, though presently reflecting recently reduced price structures, are said to be firming up perceptably, and the LPG seasonal situation is said to be good. All points toward a healthier and stronger market. The basic equation in application here, of course, is that of the rises in steel and the automotive industry production, coupled with hiked demand in both instances. Also showing a continued health is microcrystalline wax, with paraffin showing a little less color, though continuing to record stability.

Current reports of the industry for the week ended October 3 indicate a decrease in crude oil production and a decrease in crude runs, according to a report by the American Petroleum Institute. The daily average output of crude (including lease condensate), API says, was 7,014,000 barrels, a decrease of 86,000 barrels from the preceding week. Daily average crude runs to stills of 7,507,000 barrels were 132,000 barrels below the preceding week, and 272,000 barrels below the week ended October 4. Runs of foreign crude amounted to 927,000 barrels daily, compared with 983,000 barrels in the preceding week. For the four week period ending October 3, crude oil production averaged 7,053,000 barrels daily, and crude runs to stills averaged 7,649,000 barrels daily with runs of foreign crude averaging 948,000 barrels daily.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
104.54	104.54	104.54	106.64

For Current Prices see page 9

Solvents and Diluents

Benzene — The prevailing tone of this market remained uneven though hopeful, sources here reported last week. Hope is keyed realistically and basically to the automobile industry which, following its recent rank-closing behind solid union-management pacts, has begun to make headway against the inroads of the late recession. Automobiles have already shown promise of strength on the market, as has the steel market which, along with automobiles, comprises a major strength factor in the national economy. The unevenness, one source suggests, is derived from a number of factors. One, which appears minor at present, may carry a great deal of significance beneath its surface: a large shipment of foreign material was reported landed at a Texas port. Producers feel that the influence of foreign material on the domestic scene was drastically reduced during the days of the recession. However, with any gain in strength, they fear that heavy imports may again begin to bear on the domestic situation. Another factor contributing to benzene's evenness, is that the economic picture itself, hasn't stabilized to-date.

Toluene—Government buying continues to hold up, one source here reported last week. This buying has become a major source of strength to the toluene producer, acting as a steady-take off of toluene stocks that had accumulated during the bleak market days. Now, however, things look up not only in relation to government buying but also because of the injection of health into the market via the automobile industry build up. Some sources feel that the recent cut in price has also been a contributing factor to the developments in the market. However, this is considered a sore spot, and the movement, re price, continues to be a tug in the direction of return toward old levels.

Xylene—Despite recent price changes and the relatively responsive condition of the automotive and other market users of xylene, there is little sign of revival in this market. The consensus is that the market will gain slowly as the upswing in general conditions continues to develop. However, at present there is little sign of this.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended October 4 totaled 250,327,000 barrels, according to data reported by the Bureau of Mines. Compared with the total of 248,045,000 barrels for the preceding week, this represents an increase of 2,282,000 barrels comprising an increase of 1,829,000 barrels in stock of domestic crude and an increase of 453,000 barrels in stocks of foreign crude.

LPG's

Propane — Production of this material during the last two weeks in September amounted to 138,142,000 gallons, according to the latest report by the American Petroleum Industry. This was compared to the 131,142,000 gallons produced during the first two months of September, the 124,901,000 gallons produced during the last two weeks in August and the September 16-30 production figure for last year of 128,041,000. Inventories of propane at plants, terminals and underground were tallied by API at 526,035,000 gallons on September 30, as compared with the 500,518,000 gallons on hand on September 15, the 465,906,000 gallons in stock on August 31 and last years September 30 tally of 589,540,000 gallons.

Butane — Production of this material during the last two weeks of September amounted to 75,428,000 gallons according to the current API report on LP-gases. This figure compares with the 64,563,000 gallons produced during the first two weeks of the month; the 71,990,000 gallons produced during the last two weeks of August, and the September 16-30, 1957 tally of 52,100,000 gallons. Stocks of butane at plants, terminals and underground, according to the API report, amounted to 221,898,000 gallons on September 30 as compared with the 226,449,000 gallons in stock on September 15; the 227,445,000 gallons in stock on August 31 and the 277,732,000 gallons on hand on September 30, 1957.

Waxes, Mineral

Production of petroleum waxes during July totaled 390,000 barrels or a daily average of 13,000 barrels, according to a report by the Bureau of Mines. June production was 445,000 barrels, almost identical with the 446,000 barrels produced in July. Total figures for January to July inclusive are 2,970,000 barrels for this year as compared to the 1957 tally for the same period of 3,143,000 barrels. Exports of petroleum waxes were computed by the Bureau at 82,000 barrels or a daily average of 3,000 barrels. Exports for June had been 66,000 barrels which those of July had amounted to 94,000 barrels. Exports for the January to July period, inclusive, amounted to 485,000 barrels this year as compared to the 429,000 barrels exported during the same period of last year.

Microcrystalline—Reports point toward continuation of the healthy position held by this material during recent years. Though prices are expected to continue at previous levels—one producer put it this way.: "business is good, but not that good"—with no hikes anticipated, the underlying firmness remains constant with demand up to anticipated levels and production keeping apace.

Miscellaneous

Crude oil production in Saudi Arabia during September totaled 32,399,290 barrels, or an average of 1,079,976 barrels per calendar day, according to a report. This compares with 31,648,671 barrels, or an average of 1,054,956 barrels per calendar day, during the corresponding month last year. Crude processed during September amounted to 4,988,528 barrels, an average of 166,284 barrels per calendar day, as compared with 4,455,566 barrels, an average of 148,519 barrels per calendar day, during the corresponding month, last year.

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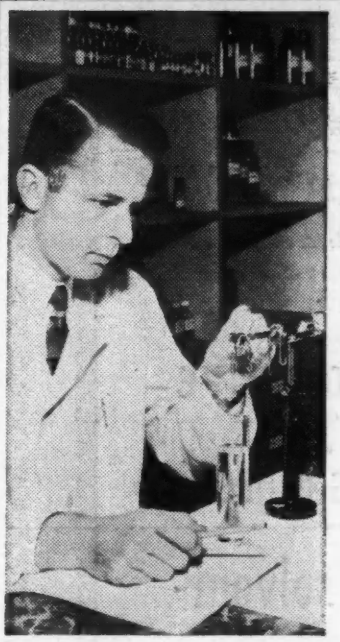

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Essential Oils, Aromatics

Despite the fact that there were no price changes, the essential oils market was reported to be doing a good volume of business last week. The activity was attributed to increased buying on the part of manufacturers of perfumes and confectioners who have begun to build up Christmas inventories. A firm spot on this market last week was vetiver oil. Political unrest at source has caused a flurry of firmer prices of Haitian grade oil. Reports say that the oil is in good supply at source and that the shipping schedule has not been affected by uprisings. Geranium oil was still firm under pressure of short stocks and brisk demand. Storms on the Reunion Islands during the growing season made for a smaller 1958 crop and higher prices. The smaller winter crop is not too far away and may assuage the situation somewhat.

No improvement is in sight for the listless bois de rose market. Over abundant supplies and slight demand plague another weakening oil. Prices of the oil were unchanged on spot last week, but shipping prices were said to be falling. It appears that many of the essential oils have a problem in common. Supplies are heavier than the overall demand, thus creating a depressed market.

Declines continued to dominate the aromatic chemicals market last week. Citral, and citronellal declined. Two weeks ago, citronellal, geraniol, geranyl acetate, hydrocitronellal, b-ionone, methyl ionone all felt price reductions. There was a common reason for all the reductions. These aromatic chemicals are all derived from citronella oil, and this oil has been weak for over a year now.

On the seeds and spices market, cassia was more accessible last week. Spots were easing slightly, and shipment prices were moving up. Mace was hardening, still cheaper than East Indian nutmegs. East Indian material was still tight with no stock being offered in Singapore while West Indian material moved freely. Paprika was steady. The Spanish market appeared to be stronger. Pepper prices were still a hair under the rest of the world, sources commented. Primary markets would not compete with us. Stocks in New York were not very sizable because most of this pepper has been sold on arrival and the rest sold on the docks. White pepper prices were a bit uncertain. One difference between this market and the black pepper market is that white pepper has not eased materially since the harvest of the 1958 crop.

Price Trends

Advanced

Caraway seed, Dutch, ½c. per lb.
Nutmegs, East India, 10c. per lb.
Pepper, Lampong, black, ¼c. per lb.
Malabar, black, ¼c. per lb.
Spearmint oil, 10c. per lb.

Reduced

Celery seed, French, 1c. per lb.
Citral, CP, 25c. per lb.
Citronellal, 45c. per lb.
Cloves, Madagascar, ½c. per lb.
Zanzibar, 1c. per lb.
Ginger, African, 1c. per lb.
Pepper, Muntok white, ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
145.44	145.51	145.62	145.09

For Current Prices see page 9

Essential Oils

Bois De Rose—Burdened down by stocks outstripping demand, this market continued to be in the doldrums. Coupled with the above mentioned problem is the increasing substitution of synthetic material. Brazil endeavored to hold out for higher prices, but finally had to face reality and meet competition. The lowering of prices in Brazil resulted in the decline of Peruvian material. Demand, however, has not been increased by these low prices. Last week Brazilian bois de rose oil eased 10c. to a new listing ranging from $2.10 to $2.75. Peruvian oil was the same at $1.95 to $2.55 per pound.

Chenopodium—Prices of the essential oil have been showing a downward trend this month. Chenopodium oil, also known as wormseed oil, was said to be declining due to abundant quantities of regular or low grade oil available on spot and for shipment from the country of origin. The listing last week ranged from $4.35 to $5.25 per pound.

Clove Leaf—Prices were unchanged last week for this item ranging from $1 to $1.35 per pound. At the end of 1957 demand for clove leaf oil dropped due to the lessening demand for vanillin from clove oil, and thus the market price fell. Prices were at rockbottom levels for several months when dealers started buying up quantities of the material. With the heavier buying prices advanced earlier this year. This strengthening of the market brought more buyers into the field looking for coverage before the price might go "the other way." This resulted in a further firming of the oil. In August reports showed that the purchasing spurt was declining, and prices have been easing since then. It cannot be predicted whether or not the clove leaf oil market will fall back to the low level in December of 1957.

Geranium—A pattern of high prices has existed for this oil for several years now. The 1958 harvest was below average due to storm damage done to the crops on the Reunion Islands. Demand continued to be good and thus geranium prices were forced to a new high. Some relief may be felt when the winter crop is harvested. The future of this oil is uncertain. Demand has been brisk, but will it continue thus? Also, have the firm listings stimulated farmers to cultivate more geranium?

Lavender—Prices of this flower oil have been unchanged lately, sources reported. Crop reports are favorable. Earlier, growers at source were pessimistic as to the size of the new crop. Now, however, due to reviving rains before the harvest, a bumper crop was brought in. This bumper crop was due in part to a good growing year, but also to the fact that new plantations have sprung up. Even larger crops can be anticipated in years to come as these plantations reach total production capacities.

But, this augmented production causes problems. The combination of old crop carry over and new crop cannot be consumed by the world market. A situation much like that which exists in the citronella oil market could result if crops continue to get larger and plantations continue to increase production.

Lemongrass—This oil has been following the same pattern shown by citronella oil. Heavy production in India and Guatemala from 1955 through 1957 brought prices down to the 1953 level. Dealers have said that there are possibilities that the oil could drop down to the low of 1952 unless a flurry of buying, brought on by the unsettled situation in the Straits of Formosa occurs to strengthen the market. The price last week of lemongrass oil was ranged from 95c. to $1.50 per pound.

Mint—The production picture for peppermint oil has picked up since the reversal of the Crop Reporting Board estimates. The 1958 crop is said to be 10 percent larger than last year's. This oil is in a much better position than spearmint oil which is estimated to be 10 percent below last year's output.

Peppermint oil prices have been steady at a range of $4.25 to $6.25 for natural oil and $4.60 to $5.90 for redistilled oil. On the other hand, spearmint oil has been climbing steadily. Last week a further increase of 10c. put the price at a range of $6.10 to $7.60 per pound.

Palmarosa—A pattern of declining prices has dominated the palmarosa oil market lately. A listless market and over abundant stocks are the ills of the oil. The current reading of palmarosa oil ranges from $3.50 to $6 per pound, sources said.

Petitgrain—The price was steady last week. The oil has not moved in some time with the last shift in the form of a decline. The current listing of petitgrain oil is ranged from $2.40 to $2.95 per pound.

Essential Oils

Sandalwood — The material was unchanged pricewise last week, sources agreed. Last month sandalwood oil declined after having followed a pattern of rising prices. Shipping prices were said to be holding stock prices down on spot. The current reading of sandalwood oil ranges from $13.25 to $14.75 per pound for material in drums.

Vetiver—Another rising oil is Haitian vetiver oil. Dealers attributed the rise to political instability. According to Louis Dejoie, one-time president of Establissements Agricoles et Industriels, buyers should not panic and try to buy up remaining vetiver oil stocks at the current high price. He estimates that there are sufficient supplies to last for six months.

Two weeks ago the price rose 50c. to a new listing of $10.50 to $12. Other grades of vetiver oil have been steady, however. Bourbon material was the same at $11.25 to $15.50, and Java oil ranged from $11.75 to $12.25 per pound.

Aromatic Chemicals

Citral—Citronella derivatives continued to decline last week, sources said. For the second week in a row, producers of citral, CP, lowered the listing. The material now ranges from $3.35 to $3.85 per pound, 30c. below the previously quoted price. Extra grade citral did not change this week and ranged from $4.85 to $5.05.

Citronellal—Joining the ranks of softing aromatic chemicals last week was citronellal. A major producer of the item decreased the listing by 45c. making a new listing of $1.45 to $2.10 per pound.

Citronellol—This aromatic chemical derived from citronella oil has also felt the declining trend that has long affected the oil. Two weeks ago, producers lowered the listings of citronellol by 30c. to a range of $2.60 to $3.75 per pound.

Hydroxycitronellal — Due to a decline in price, the market price of hydroxycitronellal now ranges from $4.50 to $5.30 per pound. Producers attributed the drop of the material to the soft price pattern that has afflicted the citronella oil market for some time now.

Seeds and Spices

Cassia—The availability of cassias was said to have improved last week with the releases of recleaned Batavias and Korintjes. Shipment levels were slightly higher while spot prices appeared a bit softer. However, sources reported that there was a certain reluctance to buy at source until a broader spot interest became more evident.

Nutmegs—Due to the continuing wide difference in price between East and West Indian nutmeg, West Indian material has been moving better than usual. There are still no stocks being offered by Singapore.

Pepper — Spot prices of black pepper were being quoted at a fraction under world levels last week, and competition was reported at a minimum. Stocks in New York warehouses were not overly abundant for most of the black pepper were tendered on deliveries, and the rest was sold on the docks. This activity in selling is responsible for the soft levels here. A recovery could be possible in the future for arrivals are waning and advance buying has been restricted due to a lack of good discounts.

Replacement level prices of white pepper were a bit uncertain as well last week. The main difference between this market and the black pepper market is that the white material has not declined perceptively since the marketing of this year's crop.

Vanilla Beans—This situation has not changed lately, sources said. Business was quiet, and manufacturers have been holding off buying waiting for lower prices. Prices have been too advanced to make it worth the while of the manufacturers to purchase beans. During the past two months, prices have been slowly moving downward. The listing last week for Bourbon vanilla beans were ranged from $10.40 to $10.80. Mexican whole beans were lower at $10.50 to $10.70, and Mexican cuts were ranged from $10.40 to $10.80.

Tahiti vanilla beans were quoted at $8.20 per pound. Tahiti has a fair amount of stock. New crop times is approaching. At source there are two and sometimes three harvests a year while other growing areas have only one. Tahiti beans are not as popular in this country as Bourbon or Mexican beans because the flavor differs from these varieties. Most of the Tahiti vanilla bean stocks, sources said, go to Europe.

Pilot Chemical Develops New Fluorescent Material

Pilot Chemical, Inc., Watertown, Mass., has developed a fluorescent chemical for use in scintillation counting.

This fluor, p-bis [2-(5-p-biphenylyloxazolyl)]—benzene, denoted as BOPOB, is said by the company to be chemically similar to the widely-used fluor, POPOP. While its effectiveness as a wavelength shifter is comparable to that of POPOP, the mean wavelength of fluorescence is about 200 degrees Augstrom longer, Pilot Chemicals says.

SOCMA Unit Names Slate

The naming committee of the Synthetic Organic Chemical Manufacturers Association has selected a slate of candidates for the 1958-59 nominating committee. Included are: R. E. Horsey, Givaudan Corporation; B. W. Jones, Pitt-Consol Chemical Company; R. W. KixMiller, Celanese Corporation of America; L. F. Loutrel, jr., Maumee Chemical Company; R. H. Moyer, E. I. duPont de Nemours & Co., and J. Werner, General Aniline & Film Corporation.

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Jobs & People

Abbott Laboratories, North Chicago, Ill.—**Floyd K. Thayer,** vice-president and director of chemical sales for Abbott, has been cited by the Chicago chapter of the American Marketing Association as Marketing Man of The Year for the Chicago area. Mr. Thayer has been with the company since 1920.

American Cyanamid Company, New York—**Allan B. Clow,** vice-president for marketing, has been named chairman of the chemical division of Muscular Dystrophy Association for the second consecutive year.

Atlas Powder Company, Wilmington, Del.—**Ralph B. Morton** has been named Cincinnati, Ohio, area salesman for the chemicals sales department. Mr. Morton joined Atlas last year. At the same time the company noted the appointment of **Joseph F. Santilli, jr.,** as manager of the marketing services section of Atlas' Aquaness department in Houston, Tex.

B. T. Babbitt, Inc., New York—**Joseph V. Torres** has been appointed to the newly-created position of director of overseas operations. Mr. Torres has been manager of the export department since 1946 and has been with the company since 1938.

Borden Chemical Company, New York—**John Franklin Day** has been named west coast sales representative for the consumer products department.. Mr. Day was previously associated with U. S. Borax & Chemical Corporation and Forifiber Corporation.

Ciba Pharmaceutical Products, Inc., Summit, N.J.—**Allan Leskinen** has been named manager of the newly-created feed additive division of the sales department. He was previously with McKesson & Robbins, Inc., New York.

Corn Products Company, New York — **Charles J. Worrall,** Ohio branch manager for the past ten years, has retired.

Esso Standard Oil Company, New York—**William F. Thiede,** an assistant general manager of manufacturing, has retired from Esso after more than forty-six years with the company.

Geismar & Co., New York—**Norman I. Kohout,** formerly of Internatio-Rotterdam, Inc., has been appointed sales manager of Geismar.

W. R. Grace & Co.'s Dewey & Almy Chemical Division, Cambridge Mass.—**Glen D. Jackson, 3rd,** has been named sales representative for organic chemicals for South Carolina, Georgia and Florida. Mr. Jackson has been with the company a year and was previously assistant to the sales manager.

Johnson & Johnson, New Brunswick, N.J.—**Jack G. Hansen,** central division sales representative, has been appointed to the new post of assistant director of merchandising services. Mr. Hansen joined the company in 1949.

Kaiser Aluminum & Chemical Corporation, Oakland, Calif.—**William B. Thomas,** assistant to the division manager for extrusions and forgings at Halethorpe, Md., has been designated adviser to the director of aluminum and magnesium division, Business and Defense Services Administration. The assignment is of six months duration.

Eli Lilly & Co., Indianapolis, Inc.—**Albert G. Mercuri,** Lilly representative in New York for the past ten years, has been named manager of the Albany, N. Y., district. He succeeds **Kenneth S. Griswald,** who retired to become secretary of the New York State Board of Examiners for Pharmacy. Mr. Mercuri has been with Lilly since 1948.

McNeil Laboratories, Inc., Philadelphia—**Leland W. Blazey** has been named director of the newly-created engineering division at the laboratories. Mr. Blazey will organize and direct expansion projects slated for the pharmaceutical firm.

Michigan Chemical Corporation, Saint Louis, Mich.—**Bogardus Werth** has joined the company's chemical sales staff as representative in the southeast. Mr. Werth was formerly with Virginia Carolina Chemical Corporation.

Monsanto Chemical Company, St. Louis, Mo.—**Richard N. Augustson** has joined the company's development department as area development manager for Latin America.

New Jersey Zinc Company, New York—**Sidney Werthan,** head of the paint laboratory since 1928, was presented with the 1958 George B. Heckel Paint Industry Award at the Federation of Paint & Varnish Production Clubs convention in Cleveland, Ohio. The award was in recognition of his work over the years in the development of technical information on zinc pigments and their application in paint products.

Oronite Chemical Company, San Francisco—**C. J. Oldenburg** has been named manager of the Chicago sales district. Mr. Oldenburg, formerly a sales representative in the Chicago area, joined the company in 1944.

Potash Company of America, Carlsbad, N.M.—**Dennis Robertson** has been named sales representative for Florida.

Smith, Kline & French Laboratories, Philadelphia—**Francis Boyer,** chairman of the board, has been appointed to a two year term on the national advisory arthritis and metabolic diseases council of the Department of Health, Education and Welfare.

Spencer Kellogg & Sons, Inc., Buffalo, N. Y.—**Ronald B. McCready** has been named west coast technical service representative. He succeeds **Earl B. Smith, jr.,** who has assumed duties as manager of the special products department in the administrative offices in Buffalo.

Ungerer & Co., New York—**William H. Dunney, jr.,** director of the perfume laboratories and vice-president of Ungerer, has completed a European survey tour. Mr. Dunney spent considerable time in the offices of Ungerer-Vidal Charvet, a subsidiary of the US firm.

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600 bgs, National City Bank, Bremen
m-AMINOPHENOL—1 cs, Robeco Chemicals, Kobe
ANILINE DYES—2 dms, Geigy Chemical Corp, Liverpool
15 dms, Heemsoth Kerner, Liverpool
15 dms, C Hardy, Havre
13 dms, Geigy Chemical Corp, Rotterdam
20 dms, Hensel Bruckmann & Lorbacher, Hamburg
32 dms, Putnam Chemical Corp, Hamburg
137 dms, Rotterdam
ANTIMONY—40 cks, Watson Geach, Liverpool
ANTIMONY OXIDE—200 bgs, Fleischman Burd & Co, Liverpool
278 bgs, C Gitlan, Antwerp
200 bgs, Chas Kurz & Co, Hamburg
ANTIMONY REGULUS—100 cs, C Gitlan, Antwerp
ARABIC GUM—300 bgs, Brown Bros, Port Sudan
500 bgs, Bankers Trust Co, Port Sudan
1,000 bgs, National City Bank, Port Sudan
450 bgs, Port Sudan
ARROWROOT—5,000 bgs, Morningstar Paisley Inc, Kingstown
ARSENIC TRIOXIDE—235 dms, Marseille
ASBESTOS FIBER—600 bgs, Bankers Trust Co, Lourenco Marques
602 bgs, P Carey Manufacturing Co, Lourenco Marques
4,700 bgs, N American Asbestos Corp, Lourenco Marques
1,000 bgs, National City Bank, Durban
5,730 bgs, Johns Manville Corp, Lourenco Marques
700 bgs, Davies Turner & Co, Durban
1,600 bgs, Lourenco Marques
BARIUM OXIDE—1 dm, Union Carbide Corp, London
BEESWAX—50 bgs, Cornelius Wax Refining, Puerto Plata
50 bgs, Lenape Trading Co, Puerto Plata
47 bgs, International Commodities Corp, Tampico
202 blks, Wm Diehl & Co, Assab
222 bgs, Santiago
BENZOCAINE—20 dms, Bremen
BLANC FIXE—400 bgs, Rotterdam
BONE ASH—10 bgs, Hamburg
BRONZE POWDER—50 dms, Putnam Chemical Corp, Hamburg
30 dms, Allied Manufacturing Co, Hamburg
BRUCINE SULFATE—4 cs, Shell Chemical Corp, London
CALCIUM CARBONATE—160 bgs, J T Baker Chemical Co, London
60 bgs, P H Petry, London
1,000 bgs, Antwerp
CALCIUM CASEINATE—12 dms, Frank Samuel & Co, Rotterdam
CALCIUM HYPOCHLORITE—100 dms, Hudson Shipping Co, Yokohama
900 dms, National City Bank, Yokohama
CALCIUM OXIDE—10 cs, Natural Nydegger, Rotterdam
CAMPHOR OIL—10 dms, Polarome Manufacturing Co, Yokohama
CANDELILLA WAX—188 bgs, Smith & Nichols, Tampico
188 bgs, Cornelius Wax Refining, Tampico
188 bgs, Colonial Trust Co, Tampico
225 bgs, Tampico
CARAWAY OIL—1 dm, Rotterdam
CARAWAY SEED—100 bgs, P H Petry, Rotterdam
200 bgs, C M Van Sillevoldt, Rotterdam
100 bgs, Rotterdam
CARDAMOM—4 cs, P H Petry, London
CARNAUBA WAX—223 bgs, Frank B Ross, Fortaleza
699 bgs, S C Johnson & Son, Fortaleza
134 bgs, National City Bank, Fortaleza
188 bgs, National City Bank, Tutoia
63 bgs, Empire Trust Co, Tutoia
563 bgs, Biddle Sawyer Corp, Tutoia
113 bgs, Cornelius Wax Refining, Tutoia
CASCARILLA BARK—304 bls, S B Penick & Co, Arica
CASEIN—2,000 bgs, Tupman Thurlow, Melbourne
1,200 bgs, J R Spellacy, Melbourne
400 bgs, F C Gerlach, Buenos Aires
500 bgs, Pacific National Bank, Hamburg
1,000 bgs, Crawford Kish & Co, Gdynia
CASSIA—833 bls, Internatio Rotterdam, Saigon
100 bls, P H Petry, Saigon
100 bls, Marine Clearing House, Saigon
183 bls, Rotterdam
CASTOR BEANS—954 bgs, Hollander Trading Corp, Port Au Prince
1,071 bgs, Hollander Trading Corp, Gonaives
CASTOR OIL—301 tons, Spencer Kellogg, Rotterdam
300 tons, Baker Castor Oil Co, Santos
300 tons, Woodward & Dickerson, Salvador
300 tons, Salvador
CEDARWOOD OIL—1 dm, Noville Essential Oil Co, Mombasa
CELERY SEED—174 bgs, George Lueders & Co, Bombay
CHAMOMILE FLOWERS—10 cs, Merchants Forwarding Co, Gdynia
CHARCOAL POWDER—7 cs, M Corbett, Havre
CHESTNUT EXTRACT—1,600 bgs, Barkey importing Co, Genoa
800 bgs, Genoa
CHLOROPHYLL—24 dim, Airkem Inc, London
CINNAMON LEAF OIL—4 dms, Volkart Bros, Galle
CITRIC ACID—8 dms, Roux Lab, Dublin
CITRONELLA OIL—10 dms, A Verley & Co, Hong Kong
25 dms, Van Ameringen Haebler, Keelung
30 dms, Hong Kong
CLOVE—100 bgs, Karl H Landes & E Balint, Tamatave
300 bgs, A G Dunn, Tamatave
300 bgs, G M Fakra, Tamatave
100 bgs, L A Champon & Co, Tamatave
300 bgs, Tamatave
50 bgs, Mombasa
CLOVE OIL—25 dms, Givaudan Corp, Tamatave
12 dms, Fritzsche Bros, Tamatave
11 dms, Mombasa
COCONUT OIL—1,200 tons, E F Drew & Co, Cebu
864 tons, Pacific Vegetable Oil Corp, Manila
COCONUT OIL, HYDROGENATED—47 tons, Fallek Products Co, Rotterdam
CODLIVER OIL—145 dms, Arista Oil Products Co, Oslo
COPAL GUM—9 bgs, Antwerp
COPPER CYANIDE—178 dms, Chemical Manufacturing Co, Liverpool
CORIANDER SEED—200 bgs, Transit Import & Export Co, Casablanca
330 bgs, Casablanca
CORN STARCH—600 bgs, Geismar & Co, Antwerp
550 bgs, Antwerp
996 bgs, Rotterdam
CRESYLIC ACID—60 dms, Van Oppen & Co, Liverpool
25 tons, Van Oppen & Co, Liverpool
20 tons, Van Oppen & Co, London
CUMIN SEED—2,000 bgs, American Trust Co, Khorramshahr
273 bgs, Louis Furth, Khorramshahr
100 bgs, Milantchi & Co, Khorramshahr
1,875 bgs, Delano Corp of America, Khorramshahr
500 bgs, Manufacturers Trust Co, Khorramshahr
240 bgs, C M Van Sillevoldt, Khorramshahr
CUTTLEFISH BONE—100 cs, D F Young, Kobe
CYANURIC CHLORIDE—500 dms, American Cyanamid Co, Rotterdam
CYCLOHEXYLAMINE—134 dms, U S Rubber Co, Hamburg
DAMMAR GUM—20 cs, O G Innes Corp, Singapore
DEXTRIN—652 bgs, Stein Hall & Co, Rotterdam
40 bgs, Manufacturers Trust Co, Rotterdam
DYES, COALTAR—137 dms, Hensel Bruckmann & Lorbacher, Rotterdam
23 dms, Orlex Dyes & Chemical Corp, Rotterdam
30 dms, C A Haynes, Rotterdam
8 dms, Natural Nydegger, Rotterdam
12 dms, Frank Smuel & Co, Rotterdam
5 dms, Naftone Inc, Rotterdam
3 dms, Putnam Chemical Corp, Hamburg
15 dms, Rotterdam
5 dms, Hamburg
2,6-DI-TERTIARY-BUTYL-4-METHYL-PHENOL — 15 dms, Kleyman Export Corp, Kobe
EARTH COLORS—5 ctns, American Cyanamid Co, Rotterdam
1,275 bgs, Naftone Inc, Bremen
EUCALYPTUS OIL—30 dms, Magnus Mabee & Reynard, Sydney
FISHLIVER OIL—2 dms, Wilbur Ellis Co, Yokohama
2 dms, Arista Oil Products Co, Yokohama
9 dms, Kanematsu N Y Inc, Yokohama
FUEL OIL—229,345 bbls, Esso Standard Oil Co, Las Piedras
110,568 bbls, Asiatic Petroleum Corp, Curacao
510,132 bbls, Shell Caribbean Petroleum Co, Punta Cardon
186,000 bbls, Esso Export Corp, Aruba
224,993 bbls, Shell Caribbean Petroleum Co, Curacao
357,987 bbls, Esso Standard Oil Co, Aruba
253,707 bbls, Esso Export Corp, Las Piedras
GALL, OX—6 cms, International Packers Ltd, Brisbane
6 dms, Tupman Thurlow, Rio Grande
5 dms, Wilson Lab, Barranquilla
GELATIN—111 bgs, B Young & Co, Hamburg
50 bgs, Manhattan Adhesives Corp, Hamburg
220 bgs, Transatlantic Animal By Products Corp, Hamburg
200 bgs, B Young & Co, London
20 bls, Ronde Shazo & Co, Rotterdam
60 bgs, Duche Uni Gum Corp, Gothenburg
112 bbls, Coignet Chemical Co, Rotterdam
300 bgs, Transatlantic Animal By Products Corp, Rotterdam
222 bgs, Hensel Bruckmann & Lorbacher, Rotterdam
GERANIUM OIL—1 dm, Hollander Trading Corp, Tamatave
GLUE—320 bgs, Jung Forwarding Co, Liverpool
350 bgs, Manhattan Adhesives Corp, Rotterdam
300 bgs, First National Boston, Hamburg
210 cs, Henneux Co, Hamburg
GLUESTOCK—602 bdls, M Asheim, Rotterdam
GLYCERINE—83 dms, R P Casado, Havana
GRAPHITE—600 bgs, Joseph Dixon Crucible Co, Bremen
510 bgs, Joseph Dixon Crucible Co, Tamatave
250 bgs, Asbury Graphite Mills, Tamatave
750 bgs, Tamatave
GYPSUM, CRUDE—3,389 tons, Allied Chemical & Dye Corp, Halifax
10,246 tons, U S Gypsum Co, Little Narrows
10,397 tons, U S Gypsum Co, Hantsport
n-HEPTYLIC ACID—1 dm, Eastman Kodak Co, Hamburg
HEXACHLOROETHANE—610 bgs, Henley & Co, Hamburg
HORN & HOOFMEAL 659 bgs, Transatlantic Animal By Products Corp, Fortaleza
HYDROFLUORIC ACID—10 dms, Liverpool
HYDROGEN PEROXIDE—110 dms, Hamburg
IODINE, CRUDE—40 kgs, Chase Manhattan Bank, Yokohama
30 bbls, Bunge Canadian Trading Co, Yokohama
IRON BLUE—5 dms, Van Oppen & Co, Liverpool
IRON OXIDE—224 bgs, Whittaker Clark & Daniels, Liverpool
46 dms, Chemical Bank, Oslo
JAPAN WAX — 25 cs, Mitsubishi International Corp, Kobe
JUNIPER BERRIES—130 bgs, Karl H Landes & E Balint, Leghorn
KARAYA GUM—391 bgs, Colony Import & Export Corp, Bombay
122 bgs, S B Penick & Co, Bombay
61 bgs, P A Dunkel, Bombay
KOLA NUTS—120 bgs, Newton Jackson & Co, Takoradi
100 bgs, D Steengrafe & Co, Kingston
LACTALBUMIN—440 dms, Rotterdam
LACTIC ACID—6 djns, E F Drew & Co, Cuxhaven
LAVENDER FLOWERS—106 bgs, Max Van Pels, Alicante
40 bgs, Norwalk Mills, Alicante
LEMON OIL—1 dm, Chase Manhattan Bank, Vera Cruz
1 dm, National City Bank, Vera Cruz
15 dms, Irving Trust Co, Vera Cruz
6 dms, Vera Cruz
8 dms, Lo Curto & Funk, Vera Cruz
1 dm, Florasynth Lab, Vera Cruz
LEMON PEEL—160 bgs, Messina
LEMONGRASS OIL—28 dms, Volkart Bros, Cochin
LICORICE ROOT—250 bls, Wm E Martin & Sons, Basrah
LOCUST BEAN GUM—200 bgs, Meer Corp, Lisbon
1,000 bgs, Morningstar Paisley Inc, Piraeus
200 bgs, Duche Uni Gum Corp, Rotterdam
MACE—19 cs, Karl H Landes & E Balint, St. Georges
42 bgs, Rotterdam
MAGNESITE—800 bgs, Smith Chemical & Color Co, Rotterdam
MAGNESIUM CARBONATE—200 bgs, Reheis Co, Liverpool
MANGANESE ORE—1,120 bgs, National Carbon Co, London
MANGROVE BARK—1,570 bgs, Barkey Importing Co, Lourenco Marques
MERCURIC CHLORIDE—2 cs, P H Petry, Southampton
MERCURY—50 flks, Lo Curto & Funk, Tampico
95 flks, Lentex Metal & Chemical Corp, Vera Cruz
METALLIC SODIUM—9 cs, Foundry Services Inc, Liverpool
METHYL GLUCAMINE—1 dm, Henley & Co, Hamburg
MOLASSES—555 tons, W R Grace & Co, Salaverry
MONOCHLOROACETIC ACID—214 dms, Bremen
MOSS—100 bgs, Meer Corp, Havre
100 bls, Stockheimer & Harder, Havre
MUSTARD OIL—7 cs, Florasynth Lab, Rotterdam
NAPHTHALENE—5,357 bgs, Koppers Co, Rotterdam
NAPHTHOLS—8 dms, Chemore Corp, Genoa
1,4-NAPHTHOQUINONE—400 bgs, M W Hardy & Co, Kobe
NIGER SEED—176 bgs, Hartz Mountain Products, Massawa
55 bgs, Ideal Trading Co, Massawa
NUTMEG—250 bgs, Karl H Landes & E Balint, St Georges
25 bgs, Kellys America Ltd, St Georges
25 bgs, A G Dunn, St Georges
25 bgs, Wm E Martin & Sons, St Georges
125 bgs, George Lueders & Co, Rotterdam
25 bgs, M J Golombeck, St Georges
40 bgs, Colombo
OITICICA OIL—200 tons, Brazilian Industrial Oils, Fortaleza
OLIBANUM GUM—40 bgs, S Hartman, Aden
201 bgs, Meer Corp, Massawa
OLIVE OIL—260 dms, Uddo & Taormina Co, Genoa
472 dms, Leghorn Trading Co, Genoa
85 dms, Marseille
PAPAIN—34 cs, Bemo Shipping Co, Mombasa
9 cs, Salentine & Co, Mombasa
20 cs, American Ferment Co, Dar es Salaam
40 cs, Chas L Huisking & Co, Mombasa
10 tins, Greene Trading Co, Mombasa
19 cs, American Ferment Co, Mombasa
50 cs, National City Bank, Dar es Salaam
20 cs, Dar es Salaam
40 cs, Mombasa
PAPRIKA—100 bgs, J Raphael & Sons, Hamburg
PEANUT OIL—101 dms, Welch Holme & Clark Co, Rotterdam
PEATMOSS—600 bls, C Fafard, Bremen
1,000 bls, Marine Midland Trust Co, Bremen
500 bls, Bruco Peatmoss Corp, Bremen
5,660 bls, Premier Peatmoss Corp, Bremen
500 bls, S Davis & Co, Bremen
3,000 bls, Premier Peatmoss Corp, Gdynia
1,300 bls, E Dunwoody, Bremen
PEPPER, BLACK—140 bgs, Daarnhower & Co, Singapore
140 bgs, A G Dunn, Singapore
400 bgs, Mincing Trading Corp, Alleppey
160 bgs, East India Trading Co, Alleppey
80 bgs, C Czarinkow, Cochin
240 bgs, A G Dunn, Alleppey
1,920 bgs, Borneo Sumatra Trading Co, Pandjang
500 bgs, Cochin
PEPPER, RED—16 bgs, Overseas Produce Corp, Kingston
PETROLEUM, CRUDE—102,667 bbls, Esso Standard Oil Co, La Salina
109,415 bbls, Cities Service Oil Co, Tampico
191,558 bbls, Socony Mobil Oil Co, Covenas
103,822 bbls, Cities Service Oil Co, La Salina
270,000 bbls, Esso Standard Oil Co, Puerto La Cruz
57,471 bbls, Esso Standard Oil Co, Las Piedras
PHENAZONE—20 cks, Havre
POLLACKLIVER OIL—20 dms, Arista Oil Products Co, Yokohama
POLYVINYL ACETATE RESIN—510 bgs, G G Lippelgoes, Kobe
POLYVINYL ALCOHOL—1,111 bgs, Air Reduction Chemical Co, Kobe
POLYVINYL CHLORIDE—1,200 bgs, E W Seward, Yokohama
6,600 bgs, Marubeni Iida Inc, Yokohama
1,736 bgs, J R Henriques, Durban
POLYVINYL CHLORIDE RESIN—545 bgs, Iwai N Y Inc, Kobe
1,160 bgs, Daiihi Bussan Kaisha, Yokohama
POPPY SEED—150 bgs, Louis Furth, Rotterdam
600 bgs, C M Van Sillevoldt, Rotterdam
350 bgs, Levy & Levis Co, Rotterdam
200 bgs, M J Golombeck, Rotterdam
700 bgs, Foreign & Domestic Sales Corp, Copenhagen
100 bgs, Becker Mayer Seed Co, Copenhagen
100 bgs, P H Petry, Copenhagen
160 bgs, Greenwich Seed Co, Rotterdam
300 bgs, Rotterdam
POTASSIUM CYANIDE—100 dms, Chemical Manufacturing Co, Liverpool
POTASSIUM SILICATE—635 bgs, Sylvania Electric Products, Rotterdam
PSYLLIUM SEED HUSKS—306 bgs, Prentiss Drug & Chemical Co, Bombay
PYRETHRUM EXTRACT—50 dms, S B Penick & Co, Mombasa
50 dms, Mombasa
PYRIDINE—81 dms, Hudson Shipping Co, Gdynia
QUEBRACHO EXTRACT—3,409 bgs, International Products Corp, Buenos Aires
QUINIDINE SULFATE—25 cs, Lo Curto & Funk, Hamburg
QUININE HYDROCHLORIDE—4 kgs, Frank Samuel & Co, Southampton
RAPE SEED—100 bgs, F H Von Damm, Rotterdam
600 bgs, Hartz Mountain Products, Rotterdam
SACCHARIN—22 cks, Conray Products Co, Kobe
SAGO FLOUR—337 bgs, Manhattan Adhesives Corp, Singapore
R SALT—21 dms, Wilson Export & Import Corp, Genoa
32 dms, Atlantic Chemical Corp, Genoa
SAPONIN—50 dms, P H Petry, Antwerp
SENNA LEAVES—140 bls, Meer Corp, Tuticorin
10 bls, Norwalk Mills, Tuticorin
SENNA PODS—50 bls, Prentiss Drug & Chemical Co, Tuticorin
SERPENTINA ROOT—12 bls, Meer Corp, Tuticorin
SESAME SEED—925 bgs, Bank of America, Puerto Barrios
SESAME SEED, HULLED—500 bgs, Louis Furth, San Juan del Sur
275 bgs, R J Spitz, San Juan del ur
100 bgs, Biddle Purchasing Co, San Juan del Sur
950 bgs, Archibald & Kendall, Corinto
294 bgs, Louis Furth, Corinto
267 bgs, Levy & Levis Co, Corinto
SHELLAC—40 dms, F H Paul & Stein Bros, Rotterdam
227 bgs, I Levine, Hamburg
SODIUM ALGINATE—50 dms, Stein, Hall & Co Glasgow
SODIUM BICHROMATE—100 dms, Ferro Metal & Chemical Corp, Durban
SODIUM CYANIDE—550 dms, Chemical Manufacturing Co, Liverpool
SODIUM GLUCURONATE—8 cs, Byron Chemical Co, Yokohama
SODIUM PERBORATE TETRAHYDRATE—500 bgs, Lo Curto & Funk, London
STARCH—837 bgs, Morningstar Paisley Inc, Rotterdam
228 bgs, D C Andrews, London
STRYCHNINE ALKALOID—1 cs, Frank Samuel & Co, Southampton
STRYCHNINE SULFATE—1 cs, Frank Samuel & Co, Southampton
SULFUR, PRECIPITATED—24 cks, J M Rodgers Co, Liverpool
TANKAGE—700 bgs, Tupman Thurlow, Rio Grande
THEOPHYLLINE—25 dms, Havre
THIOUREA—400 bgs, Arlo Forwarding Co, Yokohama
THYME LEAVES—214 bgs, M J Golombeck, Alicante
100 bls, Marseille
TOLU BALSAM—20 cs, Meer Corp, Southampton
2 dms, Fritzsche Bros, Puerto Barrios
p-TOLUENESULFONAMIDE—4 cks, Byron Chemical Co, Liverpool
TONKA BEANS—42 bbls, Machado & Co, Ciudad Bolivar
TRAGACANTH GUM—14 cs, Am-Iran Corp, Khorramshahr
314 bgs, Khorramshahr
30 cs, Khorramshahr
TRICHLOROETHYLENE—200 dms, Chemical Manufacturing Co, Liverpool
50 dms, Marseille
UREA, SYNTHETIC—3,982 bgs, Chemical Manufacturing Co, Liverpool
3,992 bgs, Chemical Manufacturing Co, Manchester
VANILLA BEANS—28 cs, L A Champon & Co, Tamatave
WATTLE BARK—3,888 bls, Hammond & Carpenter, Durban
WATTLE EXTRACT—1,786 bgs, Olson Importing Co, Durban
533 bgs, Elkan River Plate Corp, Durban
3,196 bgs, Barkey Importing Co, Durban
WAX—20 bbls, Heka Imports & Exports, Hamburg
10 dms, Wax & Rosin Products, Bremen
607 bgs, Wax & Rosin Products, Bremen
50 cs, Glasgow
WAX, CRUDE—3,984 kgs James E Fox, Tampico
WAX, SYNTHETIC—3,900 bgs, Moore & Munger, Durban
WOOL GREASE—60 dms, N I Malmstrom, Liverpool
ZINC OXIDE—700 bgs, I M Sobin Co, London
800 bgs, Industrial Chemical & Dye Co, Liverpool
1,200 bgs, Imperial Paper & Color Corp, Vera Cruz

Los Angeles

CASEIN—200 bgs, National City Bank, Havre
COPAL GUM—160 bkts, O G Innes Corp, Singapore
COPRA—1,000 tons, Cargill Inc, Honduras
2,954 tons, Procter & Gamble Co, Majuro
560 tons, Pacific Vegetable Oil Corp, Jose Panganiban
3,360 tons, Pacific Vegetable Oil Corp, Siain
2,800 tons, Pacific Vegetable Oil Corp, Tacloban
2,000 tons, Cargill Inc Jose Panganiban
COPRA CAKE—4,480 bgs, Pacific Vegetable Oil Corp, Manila
KELPMEAL—200 bgs, J L Ohman, Bergen
200 bgs, NKM Importing Co, Bergen
PEATMOSS—200 bls, Atkins Kroll & Co, Bremen
1,000 bls, Citizens National Bank, Bremen
PETROLEUM, CRUDE—90,000 bbls, Richfield Oil Corp, Punta Cardon
45,930 bbls, Edginton Oil Co, Punta Cardon
111,600 bbls, Bankline Oil Co, Mena Al Ahmadi
259,870 bbls, Mohawk Petroleum Corp, Punta Cardon
237,469 bbls, Standard Oil Co, Sungai Pakning
433,478 bbls, Wilshire Oil Co, Mena Al Ahmadi
POLYVINYL ALCOHOL—60 bgs, Maurbeni Iida Co, Kobe
SEEDLAC—200 bgs, Calcutta
SESAME SEED—200 bgs, Hismoco American Co, Corinto
200 bgs, B C Ireland, Corinto
TAPIOCA FLOUR—2,240 bgs, Morningstar Paisley Inc, Kohsichang
3,696 bgs, Stein Hall & Co, Kohsichang
WAX—50 cs, Glasgow
WOOL GREASE—25 dms, Hull
ZINC OXIDE—200 bgs, American Firstoline Corp, Hull

Philadelphia

CALCIUM CARBONATE—1,600 bgs, Antwerp
CALCIUM PHOSPHATE, DIBASIC—1,200 bgs, Wessel Duval & Co, Antwerp
CASEIN—2,000 bgs, National Casein Co, Buenos Aires
GLYCERINE—270 tons, Procter & Gamble Co, Manila
GRAPHITE—600 bgs, Asbury Graphite Mills, Bremen
GYPSUM, CRUDE—11,434 tons, National Gypsum Co, Halifax
6,288 tons, U S Gypsum Co, Little Narrows
MOLASSES—1,623,358 gals, Sagua
581,873 gals, Bufadero
749,108 gals, Pastelillo
NAPHTHALENE—500 bgs, Antwerp
3,750 bgs, Rotterdam
OLIVE OIL—80 dms, Piraeus
PEATMOSS—1,910 bls, Premier Peatmoss Corp, Bremen

—Continued on page 70

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Coatings Materials

Formidable strength ruled in non-ferrous metals last week. Lead and its oxides advanced ½ cent per pound on Wednesday, carrying quotations to 2 cents above the levels prevailing before the administration's announcement of import restrictions lit a fire under what had been a sedate market. Later in the week, white lead rose by proportional amounts. Copper showed its first real price strength in several years and drove oxide 1 cent per pound higher. Red type I was quoted at 41½ cents per pound, type II at 39½ cents and black at 43¾ cents. The new schedule for lead pigments appears below.

Despite firmer metal, zinc oxide was unchanged. This came as no surprise, however, to those who had been studying the market for the past year or so. These sources noted that the trend in zinc oxide quotations has tended away from close linkage to basic metal, with the result that production costs and competition have become the determining factors in price policy.

It had been mentioned a while ago that cadmium colors might respond to the recent decline of 10 cents per pound in cadmium metal. So far this has not been the case, and it looks as if it will not be. One trade source said last week that in this instance, metal's decline was perhaps cancelled out by higher tickets elsewhere on the production line.

There's plenty of zip in the market for phthalocyanine colors these days, but there's also plenty of competition, trade sources report. The recent price slashing—a result of competition—has made the articles particularly attractive to paint manufacturers. Other dry colors, of course, are also coming into sharper focus in the demand picture as the paint trade sets its sights on a record-smashing fourth-quarter production season.

The ever-upward creep of costs, the slow, steady rise of prices, the gradually diminishing value of the dollar—these, a trade source said, are the only elements marring the overall economic picture at present. The national economy, he said, should easily be back on its feet if not rising to new peaks by the end of the year, but at the cost, perhaps, of more inflation.

Price Trends

Advanced

Copper oxide, all types, 1c. per lb.
Lead, red, ½c. per lb.
Lead, silico-cromate, ¾c. per lb.
Lead, white, basic carbonate, 1¼c. per lb.
Lead, white, basic silicate, ¾c. per lb.
Litharge, ½c. per lb.
Mineral orange, ½c. per lb.

Reduced

None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
103.10	103.09	101.45	101.31

For Current Prices see page 9

Prime Pigments

Cadmium Colors—This group has failed to respond to the recent decline of 1c. per pound in cadmium metal. Presumably this decline was cancelled out by increases in other costs of production. Sales volume is currently at a seasonal high, reflecting renewed activity in industrial outlets.

Copper Pigments—Firmer metal drove oxide 1c. per pound higher last Wednesday, the market's first price change since June. Lots of 100 to 5,000 pounds are now quoted at 41½c. per pound for US Navy Type I, 39½c. for Type II and 43¾c. for black.

This was the market's first show of unmixed price strength in a couple of years. Prior to last June, its course was steadily downward with quotations sinking to barely half their former levels. In June, prices teetered in both directions over a range of 3c. per pound as speculative selling proliferated in world markets.

To many observers last week's advance marked a new turn in the market's fortunes. Backing up this view were two primary considerations: first, vastly curtailed production everywhere, making for a better balance of supply and demand; and second, the administration's show of interest in the problem of stabilizing non-ferrous metals.

Lead Pigments—Lead and its oxides were moved up another half-cent per pound last Tuesday, making an overall advance of 2c. per pound since the administration announced import restrictions. The latest schedule lists lead oxide at 15¼c. per pound for 95 percent lead, 15.45c. for 97 percent, 15.60c. for 98 percent, 14¾c. for litharge and 17.60c. for mineral orange.

Later in the week lead's strength reached into the market for white lead where prices advanced ¾c. to 1¼c. per pound. Basic carbonate was quoted at 17¾c. per pound in carlots, up 1¼c., silicate at 16¼c., up ¾c., and silico-chromate at 19¾c., also up ¾c. At this writing, sulfate producers had made no move.

Phthalocyanine Colors—This market is still sharply competitive, but prices have settled at the reduction of September 11. At that time the full-strength blue toner was cut to $2.90 per pound, down 50c.; resinated blue toner to $2.75, down 25c.; water-dispersable blue to $1.52, down 17c.; full-strength green toner to $3.35, down 50c.; and resinated green toner to $3, also down 50c.

Sales volume is at a high level, partly from seasonal influences, but also because these deep price cuts have made the group something of a bargain in the dry color field. Overall supply could be rated heavy in view of the increasing number of firms marketing the materials, but stocks of individual producers are at normal levels.

Synthetic Resins

The following figures show sales in pounds for July and list June's figures for comparison, as reported by the Tariff Commission:

Sales

	June*	July†
Phenolic and other tar acids resins:		
Molding resins	11,220,637	11,341,641
Laminating resins	6,465,332	6,501,563
Protective coating resins, modified, unmodified, except by rosin	2,296,383	1,790,884
Urea and melamine resins:		
Protective coating resins, straight, modified	2,027,747	1,928,347
Styrene resins:		
Protective coating resins, straight, modified	7,460,564	7,747,663
Vinyl resins:		
Total all types	62,575,361	58,094,410
Alkyd resins for protective coatings:		
Phthalic anhydride types, unmodified	9,575,036	8,823,430
Modified with tar acids, rosin and/or other material except styrene	3,282,937	2,988,566
Polybasic acid types except phthalic:		
Unmodified	325,631	350,825
Modified with tar acids, rosin and/or other materials except styrene	357,069	347,197
Rosin modifications for protective coatings:		
Rosin, rosin esters, unmodified (ester gums, esterified with glycerol)	940,599	846,930
Esterified with other alcohols, pentaerythritol, glycols, etc.	953,631	976,393
Rosin, rosin esters, modified:		
Modifications with phenolic and other tar acid resins	1,826,311	2,203,640
Modifications with maleic and fumaric acids	2,382,418	2,296,233
All other modifications	2,731,753	3,319,425
Coumarone—indene and petroleum polymer resins	17,807,233	19,714,860
Miscellaneous synthetic plastics and resins materials:		
Protective coating resins (including epichlorohydrin, acrylic polyesters, silicone and other resins)	719,402	840,376

* Revised.
† Partly estimated.

Fillers and Inerts

Blank Fixe—Due to higher costs of labor and equipment, prices were advanced $20 per ton on Oct. 1. Direct-process material is now quoted at $145 per ton for carlots at West Virginia, $155 for smaller lots, same basis, and $195 for material ex-warehouse, New York.

Gypsum—A downward trend in residential construction was responsible for declining output of gypsum during 1957, according to the annual summary of the Bureau of Mines.

Output of crude gypsum totaled 9,194,580 short tons during the year, a drop of 11 percent from the 1956 total, while calcined output reached 7.8 million tons, declining 9 percent from the previous year's 8.6 million tons.

Among the end-use products, industrial

Coatings Materials

and building plasters declined by 5 and 6 percent respectively, while portland cement retarder declined 6.1 percent, the Bureau noted.

Producers reported stocks of crude gypsum at 2,313,000 short tons on December 31. as against 2,265,000 tons at the end of the previous year and 1,894,000 at the end of 1955.

Natural Resins

Copal Gum—Prices were steady to firm against a moderate sales volume with emphasis on spot requirements. Supply was sufficient to meet all needs.

Congo copals held unchanged at 25c. to 26c. per pound for No. 1, 22c. to 24c. for No. 2 and 15¾c. to 17c. for No. 3. Philippines were in good call at 23¾c. to 26c. for pale chips and 33¼c. to 37c. for nubs.

Shellac — Material moved briskly last week as coatings manufacturers hiked requirements for seasonal production. Prices continued to reflect the floor levels established at Calcutta, orange grades being amply available here at 38c. to 39c. per pound for lemon No. 1, 36c. to 37c. for No. 2 and 34c. to 35c. for superfine.

Miscellaneous

Casein—Argentine sellers, it is reported, would like to raise asking prices to accord with variations in the exchange rates, but low buying interest here has forestalled any upward move. Another factor tending to keep a lid on prices is the imminent emergence of flush season production, which is expected to be on the heavy side this year.

Dampened buying interest in the local market is attributed to competition from soya protein and Polish casein, both of which are competitively priced. The former material is the most potent competitor because of unlimited supply and stable prices. While Polish volume has increased tremendously over former years, the producing potential of that country is strictly limited, dealers say.

Prices of Argentine last week continued to hover around 19c. per pound, as they have for many months. New Zealand was steady at 24c. per pound, and moved in moderate volume to established outlets. Domestic met fair consuming interest at long-standing price quotations.

Naval Stores

Pine Gum—For the week ended October 4 the average price per standard barrel of commercial crude pine gum was reported at $25.13 as compared with $25.07 the previous week and $24.85 a year ago. The volume of gum deliveries to plants amounted to 15,740 barrels as against the previous week's 16,840 and 10,584 a year ago. Content per barrel averaged out to 10.55 gallons of turpentine and 299.4 pounds of rosin. Gum grading percentages ranged as follows: WW, 27; WG, 32; N, 16; M, 17; and K and below, 8.

Rosin—In a summary for the week ended October 10, Department of Agriculture reported total rosin sales of 3,105 drums equivalents including 21.8 percent at export, as against the prior week's 2,291 drums. The price trend on pale grades continued upward, the report noted, while mediums remained steady to firm on increased sales volume.

Turpentine—Tankcar trading continued slow, but export volume improved during the week ended October 10. Overall sales amounted to 38,485 gallons in contrast to the previous week's 24,500.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Oct. 10	Mon. Oct. 13	Tues. Oct. 14	Wed. Oct. 15	Thurs. Oct. 16
Drums—					
K	...	...	...	$8.11	...
WW	...	...	...	8.72	...
Bags—					
G	...	...	$7.75[3]	7.64[3]	...
M	$7.70	...	...	...	...
N	7.75	...	...	...	$8.26
WG	7 95	...	...	...	...

Tankcars (for week ended October 10). M or better, $7.40; WG, $7.85.

Sales, USDA: 551* 240*[1] 354* 480* 240*

New York (Per 100 lbs., c.l., Friday): WW, $9.90; WG, $9.50; N, $9.25; K-M, $9.10.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.515	...	.5025	.505	.504‡
Sales	4,500¶	...	8,000¶	12,000¶	8,000¶

New York, Friday, per gal. 7 lbs., tankcars, 63c., l.c.l. 82c.

* Drums equivalent. ¶ Gallons. ‡ Average price.
[1] Sales confined to export and domestic tankcars.
[3] G or better.

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Volatility •	Distillation Range, °F.	IBP 340
		10% 352
		50% 360
		90% 371
		ASTM End Pt. 405
	Drying Time	200 minutes (Toluol, 20 minutes, under same test conditions);
	Flash Point, TCC °F	120
Solvent Power •	Aniline Point, °F.	184
	Kauri Butanol No.	26
Weight •	Gravity, °API	55.5
	Gravity, Specific 60/60°F.	.7567
	Gravity, lbs/gal 60°F.	6.30
Purity •	Sovasol 35 is water white in color and passes all pertinent stability and copper corrosion tests. It is practically odorless, is doctor sweet and is relatively color stable.	
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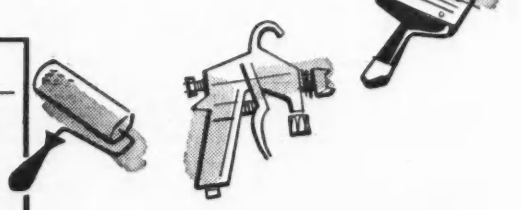

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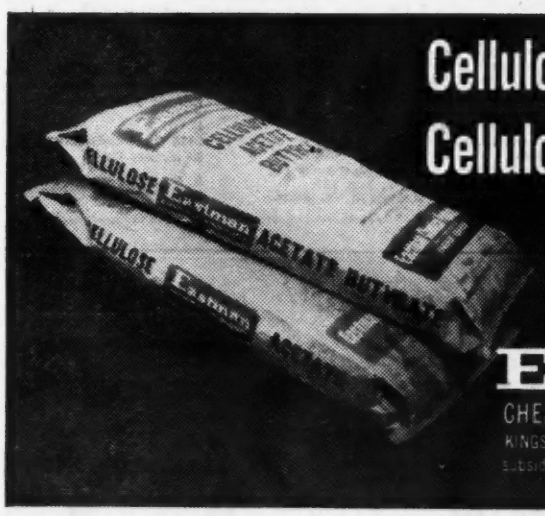

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Data Offered

Finetex, Inc., East Paterson, N.J., has issued a catalog on **five carriers for "Dacron" and "Arnel."** Listed under the group heading of "Accelerit," the carriers include two for "Arnel," two for "Dacron," and one special-type for a combination of the two synthetic fibers.

L. Sonneborn Sons, Inc., New York, has published a four-page brochure outlining the properties and advantages of **"Hydrocide Colorcoat"** a heavy-bodied, textured decorative coating for exterior masonry walls above grade. Included is a list of the product's water-repellent, elasticity, durability and bonding properties. Color chips are used to illustrate the ten colors offered. Copies may be obtained by writing to Sonneborn's building products division, Dept. H, 404 Fourth avenue, New York 16.

New York Quinine & Chemical Works, New York, has just published a twenty-four page pamphlet on **N-acetyl-p-aminophenol** (APAP). The pamphlet is a review and digest of the chemical, pharmacological and clinical literature on the material. Copies are available by writing to New York Quinine at 50 Church street, New York 8.

The organic chemicals division of Monsanto Chemical Company, St. Louis, Mo., has issued a booklet outlining the physical properties of nine **organic chemical fluids** which exhibit high resistance to radiation and thermal damage. The nine fluids, five of which are available in commercial quantities, are polyphenyl compounds and certain of their alkyl derivatives. The booklet, detailing the physical properties of selected representatives of the alkyl derivatives, may be obtained by writing to M. McEwen of Monsanto.

National Carbon Company, New York, a division of Union Carbide Corporation, has slated publication of a comprehensive collection of data on **manufactured graphite.** To be presented in the handbook are graphs, tables and curves relating to graphite's use in a wide range of industries, including the chemical processing, metallurgical, electrical and nuclear fields. Registered copies of the handbook, to be printed in limited quantities for distribution before the end of the year, will go to selected personnel in the fields of industry, education and government.

American Potash & Chemical Corporation, Los Angeles, Calif., has published **a safety wall chart of instruction for the handling of chlorate and perchlorate chemicals.** The chart is a digest of safety rules and conduct. Copies are available to firms working with these chemicals by writing to American Potash at 3000 West Sixth street, Los Angeles, 54.

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Oils, Fats and Waxes

Light consuming demand for edible grades combined with liberal supplies created an easier tone and caused prices of cottonseed, soybean and corn oils to decline fractionally last week. Peanut oil was unchanged and ruled steady, despite quiet consumer inquiry. Coconut oil continued the strongest on the list, with light trading at higher prices for shipment. Copra offerings continued scarce and were firmly held at unchanged levels. Further weakness developed in soybean meal, due to liberal stocks and quiet demand. Nearby delivery declined $6 per ton.

Firm tone featured the tallow and grease market. Trading was limited due to scarcity of offerings. Most of the business was for soapers account at unchanged prices, while specialty buyers paid a premium. Export business continued inactive. Cash lard was firmer and fractionally higher.

Heavy arrivals of olive oil, weakened the spot situation and moderate trading took place at a reduction of 5 cents per gallon. Interest in replacements from primary sources was quiet, but offers were maintained at former levels.

Increased trading was reported in tung oil due to lower prices for prompt delivery. Futures also were weaker. Brazilian castor oil was quotably unchanged, but price shading was reported on firm bids. Linseed oil remained unchanged, despite lower bids for cash flaxseed. New business was confined to actual needs, while withdrawals against contracts were in good request. Refined fish oils remained steady, reflecting the strength of crude menhaden oil. Menhaden fishing has been poor of late and practically at an end for the season.

Price Trends

Advanced

Coconut oil, crude, ½c. per lb.
Cottonseed meal, $1 per ton.
Lard, cash, ¼c. per lb.

Reduced

Beeswax, refined yellow, 2c. per lb.
Carnauba wax, yellow, 1c. to 2c. per lb.
Cocoa butter, 1c. per lb.
Corn oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Cottonseed oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Japan wax, 2c. per lb.
Olive oil, 5c. per gal.
Soybean meal, $6 per ton.
Soybean oil, crude, ¼c. per lb.
Refd., ½c. per lb.
Tung oil, ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 18, 1957
105.16	106.76	108.33	113.19

For Current Prices see page 9

Vegetable Oils

Castor—No. 1 Brazilian oil was generally quoted at 16c. per pound, tankcars, New York, prompt delivery, with occasional sales reported at ¼c. less on firm bids. Domestic grades continued in spotty demand, chiefly to actual needs at unchanged quotations.

Import of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	303,750	2,402,000
Previous week	762,300	
Corresponding week, 1957	2,152,200	1,800,000
Total this year	11,934,000	58,797,000
Corresponding period, 1957	15,768,000	84,322,000

Coconut—Firm tone featured this market. Crude was higher and held at 15⅛c. per pound, tankcars, f.o.b. Pacific coast, for nearby shipment. Tankcars at New York ranged from 15¾c. to 15⅞c.

Corn—Crude was lower and sold at 12¼c. per pound, tankcars, f.o.b., mills, prompt shipment. Refined declined to 15.98c., tankcars, New York basis.

Cottonseed—Futures continued dull and featureless on the New York Produce Exchange last week. Trading was light and mixed, with commission houses buying on a scale downward. Prices were easy and closed fractionally lower under fairly liberal liquidation and hedging which reached stop loss selling orders. Export business continued to lag and still in the talking stage.

Trading in cash oil was fairly active. Refined salad was easier with lower crude and was quoted at 14¼c. per pound, tankcars, New York, prompt delivery. October tenders were increased to 10 contracts with reports that 40 more contracts were forthcoming.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, October 17, follow:

	Sales	High	Low	Close
		Cents per pound		
Oct.	54	13.10	12.96	Exp.
Dec.	472	13.08	12.83	12.83S
March	195	13.15	12.90	12.90S
May	194	13.15	12.93	12.93S
July	26	13.02	12.83	12.83@12.85
Sept.	7	12.64	12.62	12.60@12.62

Total sales and switches, 950 contracts.

Crude was easy under selling pressing and active trading was reported at fractionally lower levels in the Valley and Texas. Sales were reported at 10⅝c. per pound, tankcars in the Valley and 10¼c. to 10⅜c., Texas as to location.

Linseed—Consumers have stepped up demand for oil against contracts and quantities moved were up to seasonal volume. Prices were without change and well held. Raw oil was maintained at 13.2c. per pound, tankcars, f.o.b. Minneapolis, October-January delivery; 13.4c., February-April and 13.6c., May-July.

Minneapolis.—Prices were maintained for linseed oil despite decline in flaxseed costs. Trade held purchases to actual requirements. Withdrawals against old contracts were considered satisfactory. Raw linseed oil was offered at 13.2c. a pound, in tankcars, f.o.b., Minneapolis for October-January delivery; 13.4c., February-April and 13.6., May-July, same basis.

Shipments of linseed oil, in pounds, were as follows:

	1958-59	1957-58
Past week	6,240,000	6,660,000
Since Sept. 1	47,280,000	52,620,000

Flaxseed—Crushings totaled 2,263,630 bushels in September, bringing the August-September total to 3,904,896 bushels, according to the National Flaxseed Processors Association.

Crushers reduced bids 5c. per bushel following moderate sales before the decline.

Minneapolis.—Crushers reduced bids on cash flaxseed 5c. a bushel to $2.95, spot and to-arrive, basis Minneapolis. Moderate spurt in bookings occurred ahead of the decline. Weakness in cash market reflected lower futures at Minneapolis and Winnipeg and higher production estimates in U. S. and Canada. Crushing operations are at low level and processors are able to meet daily requirements at current levels. Offerings, however, dwindled with indications that large quantities would go under the loan program unless bids are raised. Only 16 cars were posted as sold in the spot market, while to-arrive bookings rose to 85 cars and about 50,000 bushels in trucklots. Arrivals for all accounts totaled 297 cars, compared with 443 a year ago. Shipped were 39 cars, against 1 last year.

Receipts and shipments of flaxseed, in bushels, were as follows:

	Receipts		Shipments
	1958-59	1957-58	1958-59
Past week	519,750	775,250	68,250
Since Sept. 1	6,842,600	6,736,500	810,250

Oiticica—Trading was limited to actual needs. Market was unchanged and steady. Tankcars were held at 16½c. per pound, New York, prompt delivery. Drums ranged from 18c. to 18½c., spot as to quantity.

Olive Oil—Offers of spot material were more liberal and prices declined 5c. per gallon to $2.45 to $2.60 per gallon, drums, duty paid, as to quality and quantity. Moderate trade took place in the spot market, but interest in shipments lagged. Greece was still out of the picture, and Spanish oil was merely nominal at $61 to $62 per 100 kilos, f.o.b. shipping port subject to export license. New crop Tunisian oil was available for December shipment at $58, while immediate was unchanged at $58 to $59 per 100 kilos, drums, c. and f., New York.

Palm—Small lots were in fair request. Drums were unchanged at 14c. to 15c. per pound, spot, as to quantity. Tankcars were quoted at 11½c., spot, New York.

Peanut—Trading in crude took place at 15¾c. per pound, f.o.b. mills, tankcars, in the southeast. Refined was held at 19¼c., tankcars, New York basis.

Peanuts crop as of October 1 was estimated at 1,849,385,000 pounds by the Department of Agriculture. This compared with 1,796,785,000 pounds, September 1 and 1957 production 1,445,110,000 pounds. The 10 year average was 1,717,078,000 pounds.

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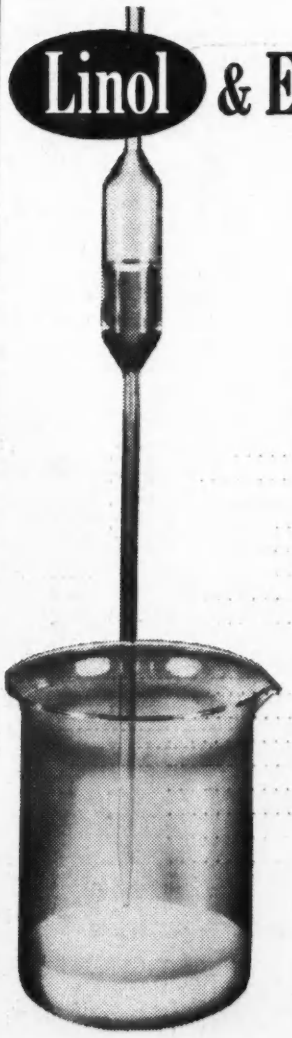

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Capric	5.5%
Lauric	50%
Myristic	23%
Palmitic	6%
Stearic	2%
Oleic	11%
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Oils, Fats and Waxes

Rapeseed—Buying interest was reported limited to actual needs. New crop oil was quoted at 15c. per pound, tankcars, New York, for late October forward delivery. Drums were offered at 16½c. to 17c., depending upon quantity.

Soybean—Trading was fairly active last week at slightly lower levels. Crude was sold at 10⅛c. per pound, tankcars, Decatur, unrestricted, nearby delivery and 10c., first half November, with second half offered at 9⅞c. Refined salad was lower and available at 12½c., tankcars, New York, prompt.

Soybeans stocks on farms on October 1 totaled 2,183,000 bushels against 3,623,000 bushels, October last year and 10-year 1947-56 average of 2,449,000 bushels.

Tung — Trading was reported quite active at lower prices. Tankcars were sold down to 20⅝c. per pound, New York, nearby delivery. November-December delivery was quoted at 20½c., same basis. Drums were lower at 22⅛c. 22⅝c. per pound, according to quantity.

Miscellaneous

Cocoa Butter—This market was easy and lower. Prices ranged from 88c. to 92c. per pound, spot, depending upon quantity.

Copra—Shipments continued strong and maintained at $203 per ton, c.i.f. Pacific coast with bids $2 less. Offerings were limited.

Fats and Greases

Greases—This market reflected steadiness of tallow, despite spotty trading. Choice white was maintained at a range of 8⅜c. to 8½c. per pound, tankcars, delivered, depending upon seller, while yellow sold at 7¼c. to 7⅜c., same basis.

Oleo Oil—Business was restricted to actual needs. Extra was unchanged at 17¾c. to 18c. per pound, drums, according to quantity. Oleo stearine was scarce and firmly held at 14c. to 14½c., same basis.

Tallow—Firm tone prevailed with moderate trading. Bleachable fancy was sold to soapers at 8⅛c., tankcars, delivered, and at 8¼c. to smaller buyers, same basis. Offerings continued light and well held. Prime ranged 7⅞c. to 8c. per pound, special 7⅝c. to 7¾c., and No. 1 7¼c. to 7⅜c., same basis. Export business was quiet and sellers held stocks closely. Guaranteed fancy was quoted at 9½c. per pound, drums, f.a.s., and 8⅝c., bulk.

Fish Oils

Cod — Prompt shipments was firmly maintained at 8¼c. to 8⅜c. per pound, drums, exdock, and encountered moderate demand. Spot stocks, virtually unchanged from a week earlier, were adequate to meet all needs. Quotations ranged 9⅜c. to 9½c., exwarehouse, as to quantity.

Menhaden — Although consuming demand was slow, market for crude held steady at 7½c. to 7⅝c. per pound, tankcars, f.o.b. works. Sellers were inclined to hold stocks closely because of slow fishing operations, the end of the season being near at hand. Light pressed refined oil, unchanged at 10½c. per pound, New York basis, encountered fair demand for nearby needs.

Fatty Acids

Prices of animal fatty acids were steady and unchanged last week at the higher levels that went into effect with the start of the quarter. Long-standing listings for vegetable acids also were unchanged.

Overall tone of the market has picked up appreciably because of stepped-up demand by industrial accounts, to fill seasonally heavier production needs.

Cake and Meal

Cottonseed Meal—Trading in meal was more active, with most sales confined to prompt delivery. Market was steadier, with 41 percent meal held at $54.50 to $55 per ton, sacked, Memphis; $59, Alabama; $63, Georgia and South Carolina for October-December shipment.

Linseed Meal — The market was unchanged and steady. Trading was confined to nearby delivery.

Minneapolis.—Prices remained steady influenced by curtailed production and a pickup in export interest. Domestic sales were limited to spot requirements. Withdrawals against old contracts continued at an excellent pace. Extracted meal 34 percent was unchanged at $50 per ton, bulk carlots f.o.b., Minneapolis, for October delivery and $51, November-December. Old process 32 percent was quoted at $57 per ton, October-December.

Peanut Meal — Sales continued limited to local delivery. Prices ranged from $62 to $64 per ton, sacked, f.o.b. Alabama and Georgia shipping point, for October shipment.

Soybean Meal — Production was near peak capacity in all areas. Feed business was not brisk, a seasonal development as large feed grade crops became available. In addition to these bearish factors, a government estimate indicated an increase in production resulting in a declining market. Some distress lots for quick delivery were sold at lower levels than for later shipment. Spot meal declined $6 and deferred from 50c. to $1. Meal 44 percent declined to $48 per ton, bulk, Decatur, unrestricted, and to $48.50 to $49, November-December.

Waxes, Vegetable

Consumers continued to absorb moderate lots for immediate needs but are showing more interest in later delivery, especially for carnauba fatty due to the firmness of replacements from Brazil. No. 3 Ceara crude was well held at 70c. to 72c. per pound, spot as to quantity and Parnahyba at 2c. more. Yellow on spot was easier, with No. 1 Ceara lower at $1.18 to $1.20 per pound, as to seller and Parnahyba at $1.20 to $1.22, same basis. Crude beeswax was quiet and unchanged. Refined beeswax was unchanged, except yellow slabs which were available at 60c. to 62c. per pound, according to quantity. Japan wax was unsettled and stocks on spot to cut to 28c. to 30c. per pound, as to quantity. Demand for candelilla was light, but well held at former levels. Crude ranged from 53c. to 54c. per pound, spot and refined, 59c. to 61c., as to quantity.

Chemical Exports Down In July; Also off From '57

Exports of chemicals and related products slid off slightly during July from their June level and also were lower than for the same month a year ago.

Preliminary figures issued last week by the Bureau of Census placed the value of exports at $109.4 million for July as compared with $113.4 million in June. During July, 1957, they were $115.2 million.

The July exports of chemicals failed to follow the trend of merchandise generally. The bureau said that exports of all merchandise during the month totalled $1,419 million or slightly more than the $1,407.9 million recorded in June. The July total was 60 percent less than the July, 1957, total of $1,691.8 million, however.

The bureau said that for the period January-July this year total exports were valued at $10,408 million or about 17 percent less than the $12,596.4 million reported for the first seven months of last year. For the three months of May-July exports totalled $4.464.8 million or 16 percent below the $5,291.1 million of the same three months of 1957.

Squibb Fair Trade Score: Forty Injunctions in a Year

E. R. Squibb & Sons, a division of Olin Mathieson Chemical Corporation, has just counted up the score in its fight against violators of fair trade.

The New York-based company finds that during the past year it has won forty injunctions — of which thirty-one were permanent and nine were preliminary—against greater New York firms that had been charged with violation of fair trade prices of Squibb articles.

William L. Arscott, vice-president and director of sales for the pharmaceutical firm, declared: "E. R. Squibb & Sons has always supported fair trade, and has vigorously enforced fair trade resale prices. Legal actions we have brought against these concerns certainly are solid evidence of our determination to enforce continuously and energetically our fair trade minimum price schedules in the entire metropolitan Area."

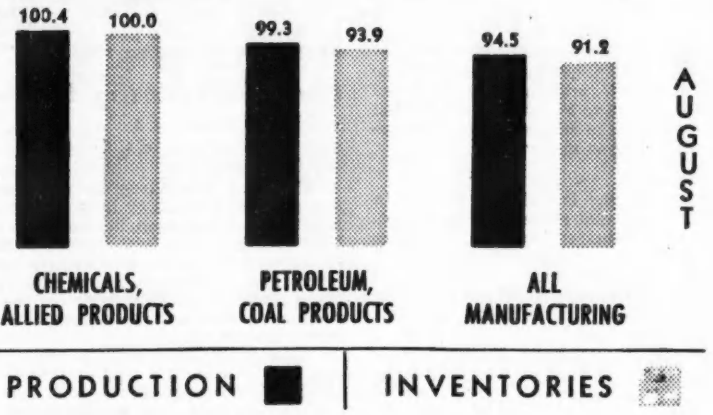
Grace Names Memphis Mgr.

Grace Chemical Division of W. R. Grace & Co., New York, has promoted Joseph W. Floyd to the position of Memphis, Tenn., district sales manager, replacing C. J. Bown, who has resigned. Mr. Floyd joined Grace in 1954.

Cities Service Elects Warren

J. Ed Warren, formerly senior vice-president of the First National City Bank of New York, has been elected chairman of the executive committee and a director of Cities Service Company, New York.

THE CHEMICAL PULSE



Sources: Federal Reserve Board, Department of Commerce. 100=same month in 1957. Production and inventories are seasonally adjusted.

Warwick Wax Introduces New Floor Polish Formula

Warwick Wax Company, a subsidiary of Sun Chemical Corporation, New York, has introduced a new basic floor polish formula that incorporates an improved permanent plasticizer which can be blended in any desired porportion with polymer emulsions.

The new basic formula "PL 802" has been specifically developed, Warwick Wax says, for use in producing light colored floor polishes with highest initial gloss, extreme toughness to wear as well as resistance to water and to slip.

Fragrances for Paint, Ink Being Marketed by Tyrex

Tyrex Drug & Chemical Corporation, New York, is marketing a series of odor-retentive compounds said to be able to give long-life fragrance to paints, printing inks, cosmetics, cleaners, floor waxes, polishes and disinfectants.

Described as saponified derivatives of natural essential perfume oils, the compounds combine a relatively low initial emission of the fragrance and exceptionally long frangrance life, the company says. The fragrances will have a life of two to five years, it was added.

Steen Resin On Stream At Chicago Heights Plant

Steen Resin & Chemical Company, a unit of United Wallpaper, Inc., has gone on stream with its new resin facility at Chicago Heights, Ill.

The move, according to a United Wallpaper spokesman, is part of that company's long range plan for penetration into the field of chemicals, plastics, paints and finishes.

The Chicago Heights unit is the parent firm's third resin and chemical plant.

Bareco Has New Waxes

Bareco Wax Company, Tulsa, Okla., a division of Petrolite Corporation, has developed two new synthetic waxes expressly for use in the polymer emulsion-type floor finishes. According to the company, the two waxes, trade named "C-6500" and "C-7500," act as vehicles or binders for the polymer particles and "impart to these finishes very desirable film forming properties."

Obituaries

George W. Cunningham

George W. Cunningham, deputy commissioner of the Bureau of Narcotics, died October 14 in Washington, D. C. He was sixty-seven years old.

Mr. Cunningham became a narcotics agent in 1920, when narcotics control was still part of the Internal Revenue Service. From 1922 until his appointment as deputy commissioner he served either as agent in charge or as district supervisor in Richmond, Va., Nashville, Tenn., Louisville, Ky., New Orleans, La., and New York.

He was named deputy commissioner in 1949 and was the principal assistant to Commissioner Harry J. Anslinger, serving as the bureau's contact with the press.

Dr. Victor L. King

Dr. Victor L. King, former technical director of Calco Chemical Division of American Cyanamid Company, New York, died October 12 in Bound Brook, N. J. He was seventy-two years old.

Dr. King, who retired last year, was a vice-president of Rhodia, Inc., New Brunswick, N. J. He joined Rhodia last year and held the post at the time of his death.

Robert N. Ballow, former district manager and regional director for Sherwin-Williams Company, Cleveland, Ohio, died October 11 in Dallas, Tex. He was seventy-two years old. Mr. Ballow had been with the company since 1910.

George H. Burt, retired secretary and treasurer of Coronet Phosphate Company, New York, died October 11 at Lake Minnewaska, N. Y. He was seventy years old.

Brack B. McHan, vice-president and director of research of Calcium Carbonate Company, Quincy, Ill., died October 7 in that city. He was seventy-three years old. Mr. McHan is attributed with developing the wet process for adding iodine to calcium carbonate.

Dr. Henry S. Thomas, director of medical service of Merck Sharp & Dohme Research Laboratories, Philadelphia, a division of Merck & Co., died October 9 in Fort Washington, Pa. He was fifty-three years old. Mr. Thomas joined Merck in 1951. Previously he had been associated with Ciba Pharmaceutical Products, Inc., and Nepera Chemical Company.

Clarence W. Williamson, sr., retired office manager and sales representative of Union Carbide Corporation, New York, died October 10 in that city. He was sixty-five years old.

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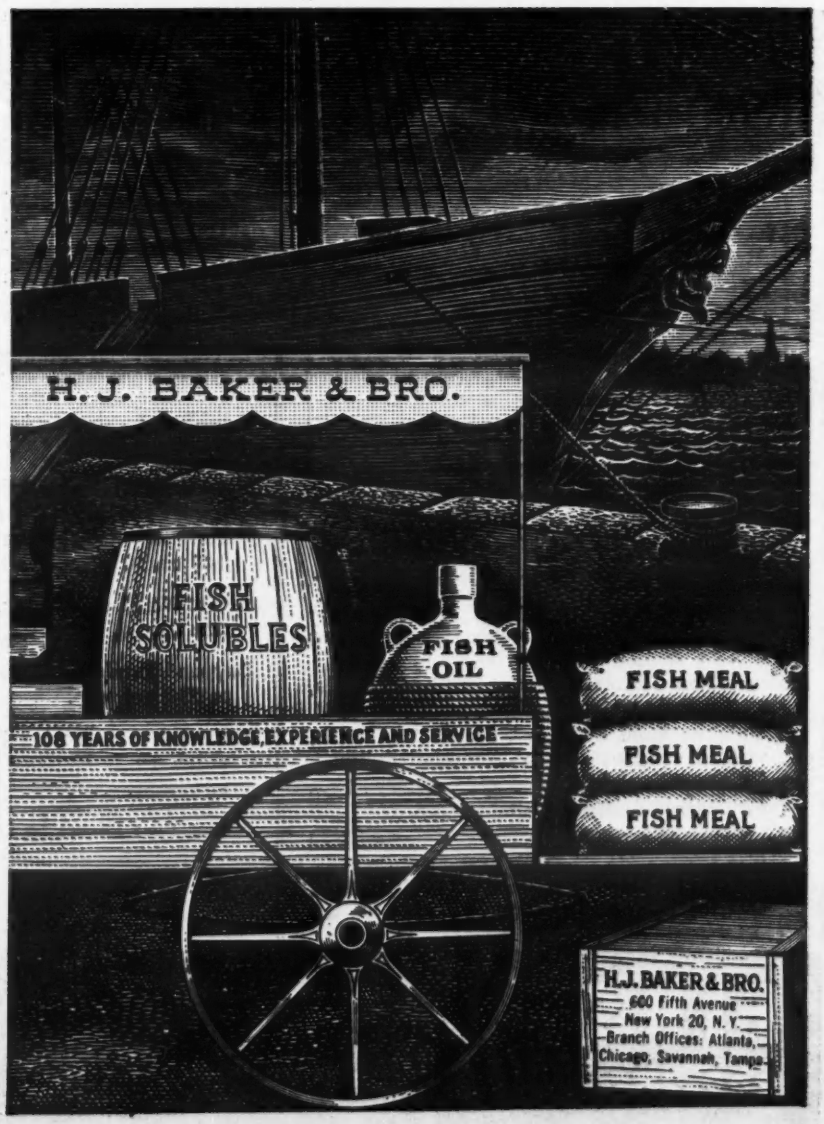

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American Smelting Sets Foot Into New Field

—Continued from page 5

was routed into a new channel. Four dams were constructed and a new highway was built to replace the road around the lake. Throughout this construction, Black Lake was kept at the proper level for flood control and for dredging.

Over 55 billion gallons of water were pumped, and 27 million cubic yards of mud and silt had to be removed from what had been the lake bottom before the asbestos deposit was uncovered.

$9 Million Mill

The Black Lake installation features a new mill which cost more than $9 million. As tall as a fourteen-story building, the mill houses ultra-modern equipment to free asbestos fiber from the ore and to grade, dry, and prepare fiber for shipment to processors of asbestos materials throughout the world.

There are also special buildings for the crushing of the ore as mined and for the storage of ore during the various phases of processing. A network of conveyors links the buildings and many operations are guided by electronic remote control systems. Built to serve the mine and mill are an electric substation, repair shops, garages, offices and railway spur.

Shakedown operations at the mine and mill started in late summer. The mill is now operating on a full commercial scale. The first steps in the project were taken in 1948 when mining rights were granted by the Crown to a Canadian syndicate.

Explorations Confirm Find

Explorations by United Asbestos Corporation, Ltd., confirmed the existence of a rich vein of asbestos ore under Black Lake. The development of such submarine mineral deposits—once considered impossible—seemed feasible in view of the success of Steep Rock, an iron ore mine underlying a lake bed in southern Ontario.

With mines, smelters, and refineries throughout the world, Asarco pointed out that it had the unique combination of engineering experience and investment capital to undertake and complete the Black Lake project. An option to develop Black Lake and operate the property on a profit-sharing basis gave Asarco an opportunity to put its extensive resources to work in the new field of asbestos mining.

The company exercised the option in 1954 and work began immediately to drain, dredge, and replace the lake with a new river drainage system, to construct dams, and to build a new highway. Construction of the mill started in July, 1956.

Chemical Industry Fuel

—Continued from page 3

able potential markets for process heat reactors could be developed.

"The soap and glycerine industry, although characterized by large plants and a high rates of operation, has not been growing in the past and here the opportunities for nuclear reactors do not seem to be promising. Moreover, since energy represents a very small proportion of the total production cost, savings cannot be significant," he added.

"Like paper and synthetic fibers, alkalies and chlorine are also very large consumers of both processing heat and electric power. ere, too, multipurpose reactors will probably be needed. All other tric power. Here, too, multipurpose reactor heat, as, for instance, large plants and high load factor, are also found in these industries.

Growth the Characteristic Feature

"Rapid growth has also been their characteristic feature during the past decade," Mr. Perazich went on, "so that opportunities for nuclear reactors would seem to be favorable. But the competition with conventional fuels will be much stiffer than in most of the industries. In 1954 alkalies and chlorine producers paid, on the average, approximately 23 cents per million BTU—which was lower than the rate paid by most other large consumers.

"It appears, therefore, that the potential market for nuclear reactors in alkalies and chlorine plants will be limited to those areas where the price of conventional fuel is above 30 cents per million BTU.

"Rubber, petroleum, and probably salt and sulfur mining are other examples of large processing industries in which nuclear heat might become important. The economical application of such energy in these industries will, however, depend on special situations which require further study."

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LEAD LINED TANKS: 1—15' x 20'; 1—15' x 12'; 2—12' x 14' agitated; 1—12' x 12'; 2—10' x 8'; 1—8' x 12'; 1—8' x 10' agitated; 2—8' x 7' agitated.

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1—500 gal. Walters, 304 S.S. jacketed, agitated Reactor, 4' x 5'.
1—500 gal. Blaw-Knox, 347 S.S. jacketed, agitated Reactor.
1—1400 gal. Blaw-Knox, steel, jacketed, agitated Reactor.
1—550 sq. ft. Buflovak, monel, single effect Evaporator.
1—250 sq. ft. Buflovak, 304 S.S. forced circulation Evaporator.
1—20 sq. ft. Buflovak, 304 S.S. forced circulation Evaporator.
1—3500 gal. 304 S.S., jacketed, agitated Tank, 9' x 7'.
2—5000 gal. 304 S.S. horizontal Tanks, 6'6" x 20'.
1—9400 gal. 316 S.S. horizontal Tank, 8'6" x 19'.
1—4000 gal. Haveg, vertical Tank, 8' x 12'.
1—12,000 gal. horizontal, steel Pressure Tank, 7'6" x 36', 200 psi.
8—Stainless Heat Exchangers; 1220, 942, 786, 536, 396, 315, 250, 157 sq. ft.

CENTRIFUGES

3—Bird; 32" x 50", 24" x 38", 18" x 28", 316 S.S., Solid Bowl, Continuous.
1—Bird 24" x 38", Monel, Solid Bowl, Continuous.
1—Bird 18" x 28", steel, Solid Bowl, Continuous. NEW.
2—Sharples PY14, PN14, Super-D-Canters, 316 S.S.
1—Sharples C20 Super-D-Hydrator, 316 S.S., XP construction.
3—Bird 40" suspended, 347 S.S., perforated basket, TEFC motor.
1—Bird 40" suspended, rubber covered, perforated basket.
1—Hercules 40" center-slung, rubber covered, perforated basket.
1—Tolhurst 30", 304 S.S., underdriven, perforated basket.
2—Sharples #16, 304 S.S., 3 HP motor.

FILTERS

2—Feinc 5' x 6', Stainless, Rotary Vacuum.
2—Oliver 8' x 8', rubber covered, Rotary Vacuum.
2—Sparkler 33S28 Filters, 150 sq. ft., 304 S.S.
1—Niagara 36H110 horizontal Filter, 110 sq. ft., 304 S.S.
1—Sparkler 33-S-17 steel Filter, 92 sq. ft.
1—#12 Sweetland Filter, 48 leaves, 3" centers, 640 sq. ft.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.
1—Sperry 18" x 18" Filter Press, 316 S.S., 23 chambers.

DRYERS

1—Devine Vacuum Shelf with 19—59" x 78" shelves.
2—Devine Vacuum Shelf with 6—40" x 43" shelves.
2—Overton 42" x 120", Atmospheric, Double Drum.
1—Overton 12" x 19", Atmospheric, Double Drum, chrome rolls.
2—Devine 5' x 12', 4' x 9', Atmospheric, Single Drum.
2—Devine 3' x 8', TEFLON Coated, Rotary Vacuum.
2—Louisville Rotary Steam Tube, 5' x 20', 6' x 50'.
2—Rotary Kilns, 10' x 120', 6' x 50'.
3—Rotary Dryers; 6' x 50', 5'6" x 50', 5' x 30'.
2—Link Belt; 7'5" x 25' Monel, 6'4" x 24' 316 SS, Roto Louvre Dryers.

MIXERS

1—Baker Perkins #16TRM, 150 gal., jacketed, sigma blades, Vacuum, 50 HP motor.
1—Baker Perkins #15VUMM, 100 gal., jacketed, Dispersion blades, 100 HP motor.
1—Baker Perkins #15JNM, 100 gal., jacketed, Sigma blades, 30 HP motor.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
1—Day D10 Powder Mixer, 304 S.S., 7½ HP motor.
5—Steel, jacketed Powder Mixers; 50, 225 and 350 cu. ft.

PULVERIZERS — MILLS

1—Hardinge 4½' x 24" Conical Ball Mill.
2—Abbe 5' x 6', 4' x 5', silex lined Pebble Mills.
5—Jeffrey Hammer Mills; 20" x 12", 15" x 8", motor driven.
3—Mikro Pulverizers; 4TH, 3TH and 2TH.
1—FitzMill model D, 304 S.S., 7½ HP motor.
2—Kent, Ross, 6" x 14" Three Roll Mills.

MISCELLANEOUS

3—Swenson Walker Continuous Crystallizers, 24" x 30' sections.
3—25 ton Freon Refrigeration Units.
4—Rotex Sifters; 40" x 84", 60" x 84", Double Deck.
3—Robinson Gyratory Sifters, 30" x 104", Triple Deck.
8—Stokes DD2, B2, "R", and "F" Tablet Presses.
10—Nash Vacuum Pumps; H6, L5, L3, TS7, #2, MD572.
25—Chlorimet, Durimet and Duriron Centrifugal Pumps, 1½" to 6".

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JUST PURCHASED

1–Raymond #3036 High Side 3-Roller Mill.
2–Bacon 20" x 6" Jaw Crushers with 30 HP motor.
2–Stokes DDS-2 Rotary Tablet Presses.
4–Oliver Dry Vacuum Pumps–14 x 8 and 9½ x 8.

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RAYON MANUFACTURING PLANT TENNESSEE

24–200 gal. Baker Perkins jkt. sigma-blade mixers, #17-VII.
7–B-P Barattes, Jktd., 52" dia. x 39" long.
12–French Jktd. Rayon Mixers, 5'L x 3'W x 4' deep, double shaft.
12–30" Sperry P.&F. filter presses, C.I., 17 chambers, closed delivery.
3–Nash H-5 and L-4 Hytor Vacuum Pumps.
15–Viking Iron Rotary Pumps, 4" x 4" and 2½" x 2½".
10–Stainless Steel Acid Pumps, 6" - 4" - 3" - 2" sizes.
7–Steel Shell & Tube Heat Exchangers–440 & 1400 sq. ft.
2–30" Sperry "Ni-Resist" P. & F. filter presses.

ALSO – Steel tanks, pumps, motors, transformers, piping, etc.

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EQUIPMENT IN STOCK

REACTOR KETTLES

1800 gal. steel, 180# Jkt. agit.
1500 gal. steel, ASME 600# WP, 150# Jkt., Agit.
750 gal. steel, Jkt. & agit.
750 GAL. T304 SS, ASME 30# WP, 30# JKT., 10 HP XP AGIT.
600 gal. steel, ASME 120#.
500 gal. nickel, anchor agit., Jkt.
500 gal. G/L, 75# Jkt., agit.
465 gal. T304 ELC SS, 175# WP, 165# Jkt.
450 gal. T347 SS, agit., 15# Jkt.
300 GAL. G/L, VAC. INT., 75# JKT., XP Agit.
125 gal. SS, Jkt., agit.
100 gal. SS, ASME vac. int., 75# Jkt., UNUSED.
100 gal. G/L, vac. int., 75# Jkt.,
30 gal. G/L, vac. int., 75# Jkt.,
30, 60, 100 gal. alum. Jkt., agit.

STAINLESS STEEL TANKS

10,500 gal., horiz., UNUSED.
5,700 gal., horiz., UNUSED.
5,200 gal., horiz., ⅛".
5,200 gal., vert., UNUSED.
4,500 gal., vert., UNUSED.
3,590 gal., Trailer, sanitary.
3,400 gal., horiz., ¼".
3,290 gal., horiz., sanitary.
3,000 gal., vert., VACUUM.
3,000 gal., vert., 14 ga., UNUSED.
2,000 gal., vert., 14 ga., UNUSED.
2,000 gal., vert., T316 SS, ¼".
1,750 gal., vert., 3/16", (hoppers).
1,600 gal., vert., 10 ga., SS.
1,400 gal., vert., ¼", SS.
STEEL TANKS — 450,000, 61,000, 42,000, 9,450, 7,700, 5,600.

WORLD'S LARGEST STOCK OF DRYERS

ROTARY: 8' x 170', 8' x 115', 8' x 7', 7' x 120', 6' x 50', 6' x 30', 5'6" x 50', 4'8" x 33', 4'6" x 40', 4' x 30', 4' x 24', 3' x 15', 4' x 12'—SS.

DOUBLE DRUM: 42" x 120", 42" x 90", 32" x 72".

ROTATING VACUUM: Stokes 5' x 8' st. st., 3' x 15' steel.

PULVERIZERS

HAMMERMILL, Penna. Crusher "non-clog," #DNC-5060, 400 HP, 1952—UNUSED.
HAMMERMILL, Penna, Crusher #C-3-30, 60 HP, "Trojan."
HAMMERMILLS, Jeffrey 50 HP, 25 HP, 36" x 24", 24" x 18."
ROLLER MILL, Raymond #5057, 5-roll, hi-side.
ROLLER MILL, Raymond #15, 6-roll, low-side, 200 HP.
PULVERIZER, Babcock & Wilcox, #32E, 75 HP.
GYRATORY CRUSHER, Kennedy #495.
ROLL CRUSHER, Penna. 30" x 60".

EVAPORATORS — STILLS

625 SQ. FT., T347 SS, SINGLE EFFECT, VACUUM.
588 SQ. FT., SS, VERT. LONG-TUBE, DBL. EFFECT,BUFLOVAK.
400, 250 SQ. FT., NICKEL, VERT. LONGTUBE.
250 SQ. FT., SS, FORCED CIRC.
236 sq. ft., T316 SS, Dbl. effect
20 sq. ft., SS, forced circulation.

CENTRIFUGALS, CONTINUOUS

SHARPLES C-20, SUPER-D-HYDRATOR, T316 SS.
Sharples #AS-16, SS, 1953.
Sharples #18-V, Tinned steel.
BIRD 32" x 50", T316 St. St.
Bird 18" x 28", steel, horiz.
Bird 24" x 38", Monel, horiz.
Bird 24" x 24", Monel.

BRIQUETTING PRESSES

KOMAREK-GREAVES, 27" DIA. x 23" W ROLLS, 1¼" x 2½" x 2¼", 25 TONS/HR., 75 HP.
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10' x 12' Eimco 350 sq. ft., R/C.
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6'6" x 6' Feinc, 120 sq. ft.

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OLIVER VACUUM FILTERS—S.S. 316, 3' x 6' Complete. (1954).
MICROPULVERIZER—1 SH Stainless.
EVAPORATORS—Single effect—All Monel 290 sq. ft. 150 sq. ft. Complete.
CENTRIFUGES—Tolhurst 26" Monel; 40" S.S. Susp: 40" Rubber Covered.
FILTER PRESSES—Shriver 36" x 36"—34-1½" Rubber Covered Frames.
PFAUDLER—G L Kettles 75, 200, 300, 600 gal.
HARDINGE Conical Ball Mills, 4½' x 16".
MIXER, DAY—2½ gal. D.A. Sigma, Jack., Vacuum, 5 H.P.

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Raymond 5 roll High Side Mill, comp.
Amer. 36 x 42 x 84" dbl. dr. jack. Sterilizer.
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72" type 347 SS bubble cap Column.
Hottmann #4 twin screw Mixer.
Buflovak 4 x 5' SS Flaker.
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Lightnin' 3 h.p. ex. pr. g. h. Agitator.
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Mix-Mullers: Simpson Lab., Porto, #00.
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604x24 Stainless Roto-Louvre Dryer.
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750 gal. jktd. Steel Reactor 300 PSI.
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#5057 Raymond 5 Roll Hi Side Roller Mills.
2TH-3TH-4TH Micro Pulverizers.
5750 gal. All Stainless Tank.
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Buffalo Vac. Drum Dryer 24" x 20".
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FILLERS—Powder & Liquid. Also Labelers.
FILTERS—Vallez type 49, with 41 Stainless covered leaves.
#2 Sweetland 12 Stainless covered leaves.
Ertel 6" & 10" Disc type.
FILTER PRESSES—6" to 36" Iron & Wood.
KETTLES—Stainless Jack. 80, 60, 50 gal.
Dopp 350 gal. Cast Iron Jack. Vacuum.
Devine Impreg. Units 30" & 36" dia.
Lead Lined Kettle 250 gal.
Steel, Alum. & Copper 5 to 2,000 gals.
MILLS—Raymond #00 Pulverizer 30 HP complete. Also #0000.
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MIXERS—Baker Perkins 100 gal. Jack.
Day Imperial 75 & 150 gals. Jacketed.
Day Pony Mixers 8, 15, & 40 gals.
Day Jumbo 700 gal. horiz. Mixer.
Blystone 3000# horiz. spiral Mixer.
Dry Spiral Mixers 50 to 3000#.
Lancaster 6' dia. vert. mixer 25 HP.
PUMPS—Stokes, Buffalo etc. Vac. 10 to 500 CFM.
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1—First Stage Cyclone with Accessory duct work.
1,000,000 B T U flash hour gas fired furnace with Maxon pre-mix burner and Bristol pyrotol combustion safeguards.
3—Second Stage prane series 84, Type E Heaters.
1—Dracco type S, 3 compartment dust collector with 75 spun Nylon bags plus 150 space bags & Kidde type A.F.C.O. Extinguishing Systems.
1—two pen Bristol recording thermometer.
1—two pen Bristol controller w proportional positioner.
1—Raymond #7-14 Second stage Blower 5 HP.
1—Raymond #12-24 Dust Collector exhaust blower.

ALSO

1—Rotex Screen 40" x 84" w/drive & 1½ HP. motor.
1—St. Regis 100 F. S., Valve type bag packer.
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2—Tolhurst 40" Sus. Style Centrifugals—Steel perforated baskets 10 5 HP. 1200/600 rpm.
1—Tolhurst as above 32" perf. Basket.
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1—Gruendler Hammermill w/10 HP. Drive & single screw feed w/½ HP. motor.
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1—Stainless Tank 150 gal. w/agitator.
1—Raymond Laboratory Pulv. Single screw.
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1—Stokes SS rotary vacuum dryer, 3' x 15'.

2—Louisville steam tube dryers 6' x 50'.

1—Louisville steam tube dryer, 8' x 45'.

2—Stokes vacuum shelf dryers, 4 shelves.

1—Stokes SS rotary vacuum dryer, 2' x 6'.

1—Oliver horizontal filter 6'6".

1—Stokes double drum dryer, 5' x 12'.

1—Oliver horizontal 3' pilot plant filter.

1—Sweetland #3 filter, 70 sq. ft.

10—Sweetland #12 filters with 72 SS leaves.

1—Shriver SS 18" x 18" plate and frame filter press, 8 chambers.

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1—Feinc SS rotary vacuum string filter 3' x 3' (NEW).

1—Lee SS jacketed kettle, 125 gal.

1—Theo. Walters SS jacketed reactor, 500 gal.

1—Acme type 316 SS jacketed kettle, 2,000 gal.

1—Nickel jacketed kettle, 1,000 gal.

1—Pfaudler Series P, 20 gal. jacketed reactor.

1—Patterson steel jacketed 3,000 gal. mixing kettle.

3—Howes 40 cu. ft. rubber lined ribbon blenders.

1—Leader SS jacketed ribbon blender, 51 cu. ft.

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1—Tolhurst 24" S/S 316 Centrifuge—XP.
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BP 100 gal. Sigma Arms Jktd. Mixer.
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Nash Hytor Vac. Pump #6, 40 HP motor.
Blaw Knox 316 S/S 4'x8' Flaker, LIKE NEW.
Day 40 gallon Pony Mixer with motor.

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2—Sperry 30" Filters, sind. del., 39-pl. 40 fr.
1—Sperry Filter 42", open del., 40-plates, 41-frames.
3—Baker Perkins Mixers, jacketed, heavy duty, sigma blade, 300 gal. with hydraulic dumpers.
1—#10 Day 300 gal. jacketed Sigma Blade Mixer.
1—International Pebble Mill, porcelain lined, 42" dia. x 60" face, direct motor drive—like new.
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1—Stainless Tank #430 Chrome, vert, 7' x 10' deep.
1—New Glass Nash Centrifugal Pump 100 gpm.
1—New Nash Vacuum Pump, Type AL-572.
1—Buflovak Jacketed Impregnating Tank 42" x 52".
1—Stedman Disintegrator size 40-6.
1—250 gal. Jacketed Nickel Kettle 100# w.p.
1—Nash Air Compressor, Type AL-823.
1—Manton Gaulin Stainless Homogenizer 125 gph.
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1—Louisville Steam Tube Dryer 6' x 35'.
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Abbe Pebble & Tube Mill 5' x 22'—Buhrstone Lined.
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FILTERS—48" x 12" Eimco, 3' x 4' Oliver Rot. Vac. w/accessories, 6" square lead Filter Press w/pump.

KETTLES—150 Gal. Jack., 500 Gal. Pfaudler galss, jack.

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2-Pfaudler 20 gallon and 50 gallon glass lined agitated jacketed reactors.

2-200 gallon and 300 gallon Pfaudler glass lined jacketed stills.

1-100 gallon lead lined reactor.

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1-4-TH Mikro pulverizer.

1-25 gallon stainless vacuum double arm mixer.

2-Baker-Perkins 50 & 200 gallon jacketed double arm mixers.

6-Stoke tablet presses RD-3, DS-3, F and R.

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Baker Perkins 50 and 100 gal. Stainless Steel Steam Jacketed Heavy Duty Mixers with Stainless Jacketed Blades.
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MRM 12 Spout Automatic Rotary Stainless Steel Gravity-Pressure Filler.
Mikro 1SH, 2TH, 3TH, 4TH Pulverizers.
Fitzpatrick Stainless Steel Comminutors.
Day, Robinson Dry Powder Mixers.
Day, Rotex, Robinson, Gayco Sifters.
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Glidden Develops Coating

Glidden Company, Cleveland, Ohio, has developed a new type of moisture and corrosion resistant coating called "Duranite." The material is said by Glidden to be tough and non-toxic and to have superior adhesive properties. "Duranite" is available after two years of practical testing and may be applied to metal, wood or cement.

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Medical Science Takes

—Continued from page 4

mycin proprionate, a new form compared with regular oral erythromycin. The company said the new form produces over 100 percent higher antibacterial activity in the blood.

Bristol Laboratories, Syracuse, N. Y., told of the value of its "Kantrex," which is kanamycin, in a wide variety of infections. The germ-killing action is a result of the drug's interference with a series of chemical reactions in the "dynamos" of cells.

Purdue Frederick Company, New York, announced that a major drug for control of active pulmonary tuberculosis has been made more useful by the discovery of a chemical form without disturbing side-effects. The company said PAS-Tebamin, or phenyl p-aminosalicylic acid had been tried on patients without the usual incidence of gastro-intestinal disturbance associated with other forms of PAS.

A Valuable Common Compound

Chas. Pfizer & Co., Brooklyn, N. Y., reported that one of the most common compounds found in nature has been used in the successful treatment of one form of a world-wide disease. The ailment is schistosomiasis, or bilharzia, a work infestation spread by fresh water snails, which afflicts at least 115 million people. The compound reported effective against it is glucosamine.

New convenience in giving "Terramycin" by injection is promised by a new form of the antibiotic described by Pfizer. Chemically, the new pre-constituted intramuscular "Terramycin" is a chelated form of the antibiotic.

J. B. Roerig & Co., a Pfizer unit, reported that the antibiotic Tao (triacetyloleandomycin) has proved successful in forty-eight of fifty-three patients, all but seven of them children, suffering from a wide variety of staphylococcal and other infections.

Synthetic Fiber Firm

—Continued from page 4

brought into production by stages. When it reaches eventual capacity of 40 million pounds per year, the Shelby plant could provide employment for approximately 1,500 persons.

The Shelby plant will produce "Teron" in both filament yarn and staple fiber form, for major end-uses in apparel and home furnishings. "Teron" is expected to find substantial use in blended fabrics, with wool, cotton, rayon, acetate, triacetate and acrylic fibers. In such fabrics, the "Teron" polyester fiber can be expected to contribute outstanding crease retention, wrinkle resistance and ease of care.

Fiber Industries' projected production of "Teron" marks the first United States effort to manufacture and market competitively a commercially established polyester fiber of the same chemical composition as "Dacron" (polyethylene terephthalate). Teron will be marketed by the Celanese textile division, which has headquarters offices and textile development laboratories in Charlotte.

J. B. Phelps has been appointed plant manager of the Shelby installation. Mr. Phelps, formerly assistant to the manager of manufacturing of the Celanese chemical division, has been located at the chemical division's manufacturing headquarters in Corpus Christi, Tex., since 1956.

Imports at US Ports

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PETROLEUM, CRUDE—198,186 bbls, Texas Oil Co, Sidon
157,091 bbls, Texas Oil Co, Puerto La Cruz
237,106 bbls, Texas Oil Co, Pamatacual
119,758 bbls, Atlantic Refining Co, Bandar Mashur
129,264 bbls, Atlantic Refining Co, Bachaquero
116,591 bbls, Atlantic Refining Co, Puerto Ordaz
376,415 bbls, Gulf Oil Corp, Puerto La Cruz
415,966 bbls, Gulf Oil Corp, Banias
198,388 bbls, Socony Mobil Oil Co, Covenas
QUEBRACHO EXTRACT—548 bgs, Tan American Corp, Buenos Aires
TAPIOCA FLOUR—3,114 bgs, Geismar & Co, Bangkok
TRICHLOROETHYLENE—60 dms, Gothenburg
WOOL GREASE—50 dms, Hummel Lanolin Corp, Bremen
ZINC OXIDE—500 bgs, Pigment Chemical Co, London

San Francisco

ANTIMONY OXIDE—76 dms, Revelli Chemical Co, Hamburg
CALCIUM FORMATE—600 bgs, C M C Chemicals Inc, Hull
CARAWAY SEED—100 bgs, California Commodities Corp, Rotterdam
200 bgs, B C Ireland, Rotterdam
CARBON, ACTIVATED—20 bgs, London
CARNAUBA WAX—134 bgs, National City Bank, Fortaleza
CASEIN—200 bgs, Pacific National Bank, Buenos Aires
CASSIA—200 bgs, Foreign Domestic Sales Corp, Belawan Deli
342 bls, Djakarta
COPRA—495 tons, Procter & Gamble Co, Cebu
543 tons, Procter & Gamble Co, Dumaguete
350 tons, Procter & Gamble Co, Nasipit
500 tons, Procter & Gamble Co, Cagayan de Oro
900 tons, Cargill Inc, Tacloban
500 tons, Procter & Gamble Co, Medina
500 tons, Procter & Gamble Co, Jagna
500 tons, Cargill Inc, Tabaco
500 tons, Marwood Co, Masbate
COPRA CAKE—10,000 bgs, Pacific Vegetable Oil Corp, Cebu
CORIANDER SEED—100 bgs, Wm E Martin & Sons, Rotterdam
DEXTRIN—200 bgs, Arobal Manufacturing Co, Amsterdam
100 bgs, H B Fuller Co, Amsterdam
NUTMEG—50 bgs, West India Trading Co, Port of Spain
70 bgs, Singapore
OITICICA OIL—262 tons, Brazil Oiticica Inc, Fortaleza
PEATMOSS—200 bls, Lastreto Phillips Co, Bremen
PEPPER, WHITE—35 bgs, Singapore
PETROLEUM, CRUDE—276,459 bbls, Tidewater Oil Co, Sungai Pakning
POTASSIUM NITRATE—110 bgs, D M Hicks, Bremen
QUEBRACHO EXTRACT—109 bgs, First National Chicago, Buenos Aires
SESAME SEED—60 bgs, W R Grace & Co, Corinto
300 bgs, B C Ireland, San Juan del Sur
SODIUM CYANIDE—100 dms, C M C Chemicals Inc, Hull
SODIUM PERBORATE—220 bgs, I M Sobin Co, Antwerp
TAPIOCA FLOUR—1,120 bgs, Stein, Hall & Co, Kohsichang
223 bgs, H M Newhall & Co, Bangkok
1,350 bgs, American Key Products, Bangkok

Bids Wanted

Ammonium sulfate, 60,000 lbs., wet sandblasting, dibasic, tech., Bid 1-1135, Oct. 28, Gen'l Stores Supply Office, 700 Robbins Ave., Philadelphia 11, Pa.

Calcium hypochlorite, 12,589 cns., 5 lb. cns., spec. OC-114A, Bid 5, Oct. 27, US Army Chemical Div., 1515 Clay St., Oakland, Calif.

Carbon dioxide, 156,000 lbs., Bid 25, Nov. 6, Contracting Officer, Davis Monthan AFB, Tucson, Ariz.

Catechol, 20 lbs., Bid 112, Oct. 27, Contracting Officer McClellan AFB, McClellan, Calif.

Chloracetophenone, 12,000 lbs., GN, spec. C-10386A, Bid 32, Nov. 7, N. Y. Chemical Procurement Div., 290 Broadway, New York 7, N. Y.

Chlorine, 10,000 lbs., tech. 99.9%, spec. C-124600, Bid 25, Nov. 6, Contracting Officer, Davis Monthan AFB, Tucson, Ariz.

Dieldrin, 11,802 gals., 1 gal. cns., insecticide, flammable, liquid, odorless, Bid 203, Nov. 7, US Navy Purchasing Office, 3rd Ave. and 29th St., Brooklyn 32, N. Y.

Diphenylamine chlorasine, 18,500 lbs., spec. D-1772AA, Bid 32, Nov. 7, N. Y. Chemical Procurement Div., 290 Broadway, New York 7, N. Y.

Drugs, Codeine sulfate, 7,560 bots., 32 mg. ½ gr., tablets, NF, Bid 249, Oct. 28, Ephedrine sulfate, 4608 bots., 1 oz. bots., USP, Bid 245, Oct. 27, Acetylsalicylic acid, 39,024 bots., 100S, tablets, IFB 62851-215-59B, Oct. 27, Aluminum hydroxide gel, 29,520 bots., 100S, dried, tablets, Bid IFB 62851-215-59B, Oct. 27, 6-Diamino-3-phenylazopyridine, 13,536 bots., 50S, tablets, Bid IFB 62851-215-59B, Oct. 27, sodium chloride, 10800 bots., 100S, tablets, Bid IFB 62851-215-59B, Oct. 27, Military Medical Supply Agency, 84 Sands St., Brooklyn 1, N. Y.

Nitric acid, 1,080 lbs. Bid 112, Oct. 27, Contracting Officer, McClellan AFB, McClellan, Calif.

Paint, 2,000 gals., alkyd plat. int. paint, spec P-30, white, Bid R2F-67413, Oct. 27, Gen'l Services Admin., 7th and D Sts., Washington 25, D. C., 400 qts., lacquer clear, 900 qts., stain, gloss, black enamel, Bid M-7-73, Nov. 4, Supply Div., V.A. Supply Depot, Box 27, Hines, Ill.

Potassium chlorate, 217,050 lbs., spec. MIL P-150A, Bid 31, Oct. 27, N. Y. Chemical Procurement Div., 290 Broadway, New York 7, N. Y.

Sodium Citrate, 325 lbs., Bid 122, Oct. 27, Contracting Officer, McClellan AFB, McClellan, Calif.

Sodium cyanide, 25 lbs., tech., Bid 112, Oct. 27, Contracting Officer, McClellan AFB, McClellan, Calif.

Trichlorethylene, 66,000 lbs., 660 lb. dms., tech., type 1, regular, spec. OT-634A, Bid 118, Nov. 6, Bureau of Engraving and Printing, 14th and C Sts., Washington 25, D. C.

Antibiotic Medicine's Giants Agree on Future

—*Continued from page 7*

biotic remain vital keys to future development.

Little is known of the mode of action of the antibiotic, that is, how it acts upon different bacteria, said Dr. Waksman. He pointed out that the question to be investigated is: Just what connection is there between the nature of the organism and its sensitivity to a particular antibiotic.

Dr. Florey, a pioneer in penicillin's development, told the group that the gigantic scale on which penicillin was finally produced was a tribute to the chemical and engineering skill of the United States.

He reminded his listeners that the United States is to be credited with three fundamental steps in bringing penicillin into wide medical use. They are: (1) The development of the deep fermentation process; (2) The production of strains of fungus yielding far more penicillin than Fleming's original strains and (3) The improvement in the fermentation media, especially by the addition of corn-steep liquor.

Welch Credits Production

Dr. Welch told the group that "marked improvement in the treatment of prophylaxis of infectious disease" was in large part due to the tremendous quantities of antibiotics now being produced. He reminded his listeners that production in the United States alone is now more than 2.5 million pounds annually.

Dr. Keefer pointed out that the practical achievements so far have come from the utilization of agents which interfere with the metabolism of microorganisms. However, he added that it should not be overlooked that DuBois and his colleagues were the first to demonstrate that it is possible to alter the pathologic course of certain organisms, such as type III pneumococcus through the enzymatic destruction of its capsule and its products.

The search for more information and enzymes which are specific for broad classes of bacteria may yield products of great value, Dr. Keefer concluded.

Summarization of Uses

Dr. Dowling summarized prophylactic uses for antibiotics to date. He pointed out that the broad-spectrum antibiotics have been effective in suppressing scrub typhus, that they can be used to lower the number of bacteria in the intestine preoperatively and in ulcerative colitis or cirrhosis of the liver, and that they will reduce the frequency and severity of acute pulmontary infections in patients with chronic bronchitis and bronchietasis.

There are two additional prophylactic areas, Dr. Dowling said: the stimulation of the growth of animals by presumably suppressing the growth of microorganisms in the intestines and the preservative of food for human use.

Dr. Dowling concluded that the future of antibiotics will be written by those researchers who seek out new paths rather than follow those cut out by previous investigators.

Great achievements in antibiotic medicine are no longer the result of a lone investigator working in the quiet of his laboratory, but the consequence of team efforts, Dr. Marti-Ibanez told the scientists.

Penicillin, Antibiotic Age Span

"Thirty years ago penicillin was discovered and ten years ago broad-spectrum antibiotics were introduced and let us note the difference between these two achievements of the Antibiotic Age," said Dr. Marti-Ibanez.

"The first was accomplished by one man alone, as in the days of Pasteur; the second, by a team of men dedicated to tracking down an antibiotic as persistently as safari hunters track down their quarry."

Had antibiotic discoveries occurred at an earlier stage of civilization, they would have altered the course of history, Dr. Marti-Ibanez said, citing catastrophes which might have been averted.

He said: "Collectively, antibiotics might have stopped the great pandemics that changed the course of humanity—for instance the ten plagues of Egypt, the plague of Athens, Justinian's plague, the Black Death, the syphilis epidemics of the Renaissance, the Great Plague of London, yellow fever in the United States, typhoid in the Boer War, typhus in the Balkans and the influenza pandemic of 1918-1919."

A preventive or prophylactic role for antibiotics in future medicine was predicted by Dr. Marti-Ibanez. He explained:

"In the medicine of tomorrow the role of antibiotics will become increasingly more prophylactic, as the interval between discovery of a drug and its clinical application becomes shorter and shorter. For a long time mankind was deprived of the benefits of many drugs simply because it failed to use them until long after their discovery . . . the sulfonamides, discovered in 1908, were employed only twenty-seven years later; isoniazid, discovered in 1912, was not applied until forty years later and penicillin, discovered in 1928, was not used until thirteen years later.

"These delays were often caused by fear of toxicity. It is now high time to convince ourselves that a drug's toxicity often runs parallel with its therapeutic activity, demanding not its rejection but merely greater precision in its use."

The symposium was sponsored by the medical journals *Antibiotics & Chemotherapy* and *Antibiotic Medicine & Clinical Therapy*, both of which are published in New York by MD publications.

Cyanamid and Pfizer

—*Continued from page 5*

tetracycline products which they could otherwise make only by infringing Cyanamid's chlortetracycline patent.

Cyanamid's answer pointed out that in the absence of such licensing, the parties involved would have been blocked by adversely-held patents.

As Cyanamid put it, the agreements solved an impasse and made it possible for the five companies involved (Cyanamid, Pfizer, Bristol, Olin Mathieson Chemical Corporation, New York and Upjohn Company, Kalamazoo, Mich.) to compete vigorously in the sale of tetracycline, which all of them have done.

General Denial of Charges

In general, the Cyanamid answer denied all substantive charges made by FTC and asked that the complaint be dismissed on the ground that it failed to state a violation of the Federal Trade Commission act.

The Pfizer answer admitted that Cyanamid was granted a patent on chlorotetracycline ("Aureomycin") in 1949 by the Patent Office and that in 1954, as part of a settlement of a patent interference suit between Pfizer and Cyanamid, Pfizer received a license to manufacture chlortetracycline for use in the manufacture of tetracycline by deschlorination or chlortetracycline.

It was also admitted that in January, 1955, Pfizer was granted a patent on tetracycline and that, as part of the patent interference settlement, it had granted a license to Cyanamid to manufacture and sell tetracycline.

Also, it granted licenses to manufacture and sell tetrycycline to Bristol, to Olin Mathieson and to Upjohn. All of these licensing agreements, Pfizer contended, were part of the settlement of the Cyanamid-Pfizer litigation.

However, the Brooklyn drug house denied FTC charges that the patent was obtained by misrepresentations to the Patent Office and refuted other charges of illegalities embodied in the complaint, It asked FTC to dismiss the complaint.

Procter & Gamble Elects Executives to New Positions

Procter & Gamble Company's board of directors has elected three executives to new positions in the company.

Named by the Cincinnati, Ohio, firm are: J. M. Ewell, formerly vice-president of manufacture, elected vice-president for manufacturing and employee relations; C. K. McCracken, formerly vice-president and comptroller, elected vice-president for corporate affairs; and D. P. Fite, formerly associate comptroller, elected comptroller of the company.

Nat'l Gypsum Names V.P.

National Gypsum Company has promoted Leonard L. Hank to vice-president of operations. Mr. Hank will be in charge of the Buffalo, N. Y., firm's thirty-eight plants, its mines, quarries, and purchasing, transportation, engineering and plant industrial relations divisions. He was previously vice-president in charge of manufacturing.

Hull, Burney to Join

—*Continued from page 7*

tion program established by congress in 1955. The report by Dr. Burney will include a section on the National Air Sampling Network, which has been set up in cooperation with the states and communities.

The network already covers 112 urban sites and forty-five others outside of cities, where samples are collected for analysis at the Sanitary Engineering Center in Cincinnati, Ohio. This is the first attempt to collect and analyze pollution data on a nation-wide basis.

Mediterranean Olive Oil Sinks A Little in 1958-59

Olive oil production in the Mediterranean Basin for the marketing year 1958-59 is estimated at 1.2 million short tons, or only slightly under the latest estimate for the 1957-58 crop of 1,219,000 short tons, according to the Foreign Agricultural Service.

The latest estimate for the 1957-58 year is 15 percent above the April 17 estimate due largely to greater-than-expected production in Italy, Spain and Yugoslavia.

The estimate of 1.2 million for the new season includes country estimates which are highly tentative since the actual outturn is still subject to insect and weather hazards from now through the harvest.

Output in the European producing areas, outside Spain, will reflect an "off year" in the biennial yield cycle. In addition, adverse weather further affected the crops of Portugal and Italy. There is no evidence that the dacus fly has reduced European crops appreciably, it was stated.

Spain is expecting an above-average olive crop. Spring moisture was reportedly favorable, and no adverse conditions have been reported during the summer. Estimates for 1958-59 are as high as 13 percent above last year.

In the Near East and Africa, most producing countries are experiencing a good year in the biennial cycle. The doubling of production in these non-European countries, with Spain's increase, will offset the expected decline in Italy, Portugal and Greece.

Synthetic Rubber Buying Is Hiked Sharply in August

August consumption of synthetic rubber in the United States rose sharply to 71,762 long tons from the July level of 63,865 short tons, according to preliminary estimates of the Business and Defense Services Administration. Production during August totaled 87,321 tons and stocks at the end of the month were 181,921 tons.

Types of synthetic consumed and on hand at the end of the month were:

S-type, 59,458 tons consumed and 136,735 tons on hand; butyl, 4,277 tons consumed and 24,618 tons on hand; neoprene, 5,719 tons consumed and 16,344 tons on hand; N-type, 2,308 tons consumed and 6,224 tons on hand.

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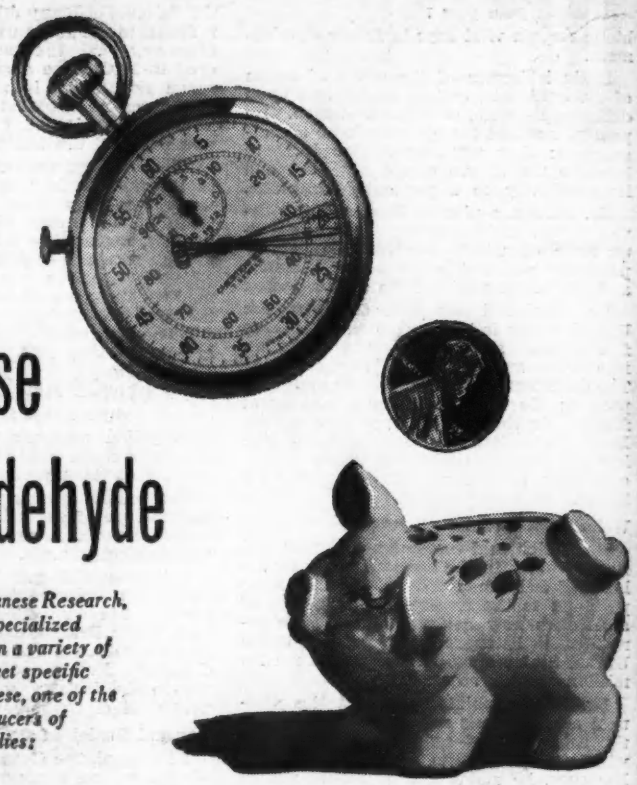

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